



# **FS-C8008N**

# **FS-C8008DN**

## **Color Laser Printer**



# **Operation Guide**

**Cautions**

- To prevent the printer from tipping over, the optional CA-31B caster kit must be installed when the printer is installed with more than one paper feeder or a duplex unit. For detailed information on the CA-31B caster kit, see [page A-11](#).
- Do not block the cooling air in and out vents and the exhaust duct against walls or with other objects. If the flow of cooling air is blocked, heat will be built up in the printer, and there will be a risk of fire.

**Note**

Moisture condensation inside the printer can cause blurred printing. When a heavily blurred printing occurred, turn printer power off while the power cable is plugged to power. Then, open the front cover, draw the paper transfer unit fully out, and draw the primary transfer unit out. Allow approximately 2 hours before use.

**Please read the Operation Guide before using the printer. Keep it close to the printer for easy reference.**

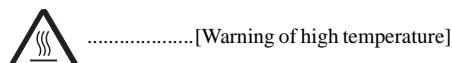
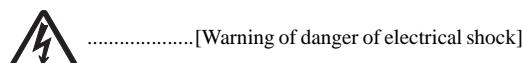
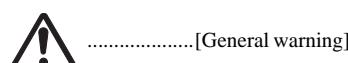
The sections of this guide and parts of the printer marked with symbols are safety warnings meant to protect the user, other individuals and surrounding objects, and ensure correct and safe usage of the printer. The symbols and their meanings are indicated below.

**⚠ WARNING:** Indicates that serious injury or even death may result from insufficient attention to or incorrect compliance with the related points.

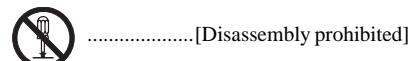
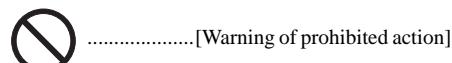
**⚠ CAUTION:** Indicates that personal injury or mechanical damage may result from insufficient attention to or incorrect compliance with the related points.

**Symbols**

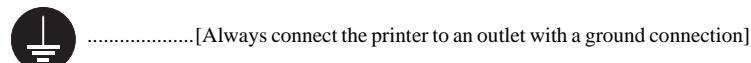
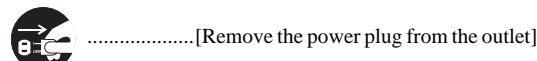
The  symbol indicates that the related section includes safety warnings. Specific points of attention are indicated inside the symbol.



The  symbol indicates that the related section includes information on prohibited actions. Specifics of the prohibited action are indicated inside the symbol.



The  symbol indicates that the related section includes information on actions which must be performed. Specifics of the required action are indicated inside the symbol.



Please contact your service representative to order a replacement if the safety warnings in the guide are illegible or if the guide itself is missing. (fee required)

## Caution

NO LIABILITY IS ASSUMED FOR ANY DAMAGE CAUSED BY IMPROPER INSTALLATION.

## Notice on Software

SOFTWARE USED WITH THIS PRINTER MUST SUPPORT THE PRINTER'S EMULATION MODE. The printer is factory-set to emulate the PCL. The emulation mode can be changed by following the procedures described in *Chapter 3*.

## Notice

The information in this guide is subject to change without notification. Additional pages may be inserted in future editions. The user is asked to excuse any technical inaccuracies or typographical errors in the present edition.

No responsibility is assumed if accidents occur while the user is following the instructions in this guide. No responsibility is assumed for defects in the printer's firmware (contents of its read-only memory).

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### **FCC statement (for users in the United States)**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that used for the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment. Shielded circular cables should be used for interfacing with the computer.

Cautions to the user:

- Any modifications without prior permission of Kyocera may cause harmful interference.
- If any modifications or changes are made to this equipment without prior permission of Kyocera, Kyocera as the manufacturer does not guarantee the compliance with the FCC Rules.
- The use of equipment that does not comply with the FCC Rules is prohibited.

## Important Notes for Interface connectors

Be sure to power off the printer before connecting or disconnecting an interface cable. For protection against static electricity discharge to the printer's internal electronics through the interface connector(s), cover any interface connector that is not in use with the protective cap supplied.

Use shielded interface cables.

## Safety information

Laser safety:

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation. Because radiation emitted inside the printer is completely confined within the protective housings and external covers, the laser beam cannot escape from the printer during any phase of user operation.

Laser notice:

This printer is certified in the United States to conform to the requirements of DHHS 21 CFR Subchapter for Class I (1) laser products, and is certified elsewhere as a Class I laser product conforming to the requirements of IEC 825-1.

Cautions:

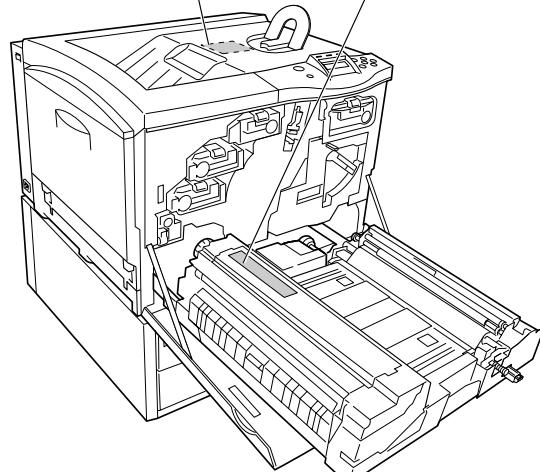
- Laser radiation will open. DO NOT STARE INTO THE BEAM OR VIEW THE BEAM DIRECTLY WITH OPTICAL INSTRUMENTS.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

## Cautionary Labels

The printer bears any of the following labels.



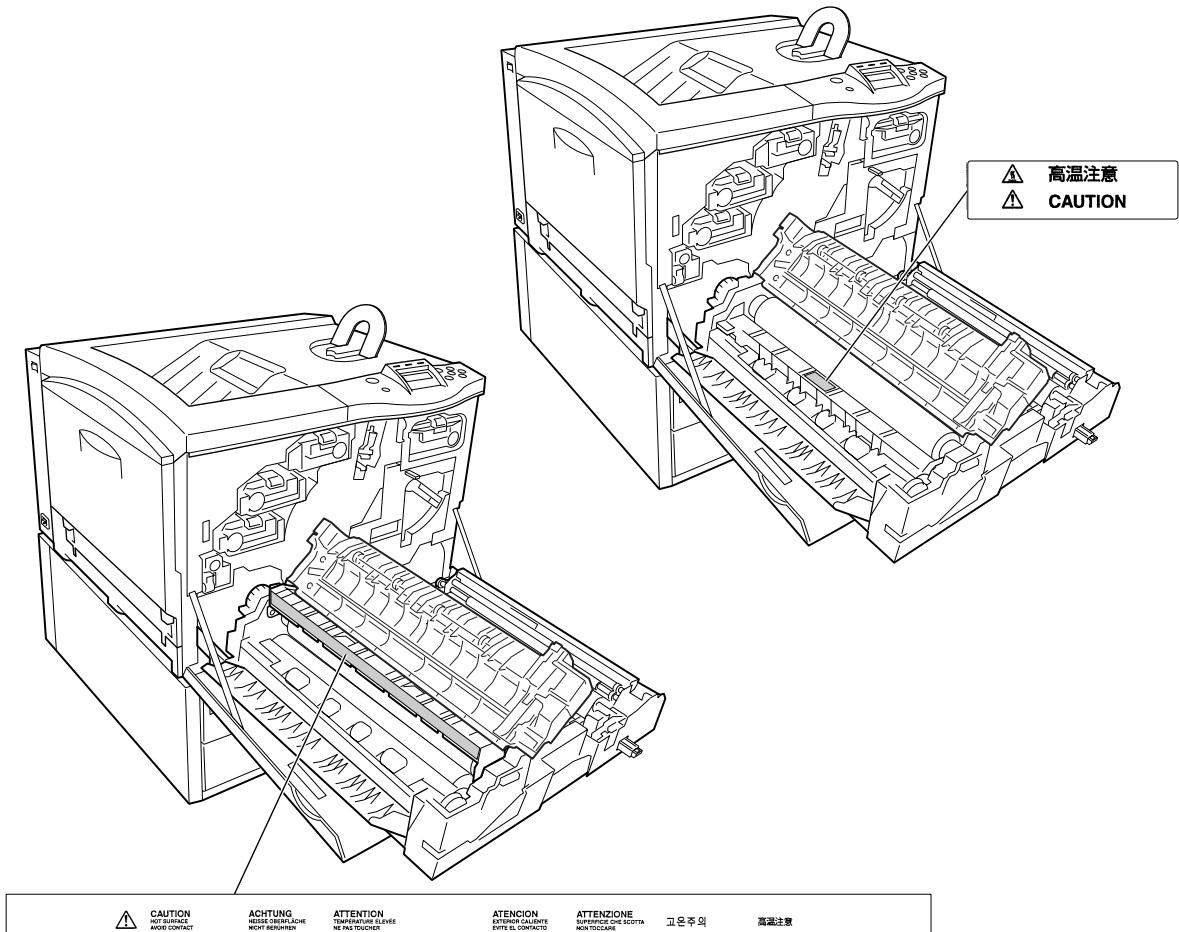
Inside



For Europe, Asia,  
and other countries

For U.S.A. and Canada





### U.S. CDRH regulations

The Center of Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured on and after August 1, 1976. Compliance is mandatory for products marketed in the United States. A label indicating compliance with the CDRH regulations must be attached to laser products marketed in the United States.

### Ozone concentration

The printers generate ozone gas ( $O_3$ ) which may concentrate in the place of installation and cause an unpleasant smell. To minimize the concentration of ozone gas to less than 0.1 ppm, we recommend you not to install the printer in a confined area where ventilation is blocked.

### **Declaration of Conformity for U.S.A.**

Model name: Color Laser Printer FS-C8008N

Trade name: Kyocera Mita

Responsible party: Kyocera Mita America, Inc.

Address: 225 Sand Road PO Box 40008 Fairfield, New Jersey 07004-0008, U.S.A.

Telephone: (973) 808-8444

Fax: (973) 882-6000

Contact person for technical matter: Ryozo Kojima

Phone: (973)-882-6019

Manufacturer: Kyocera Mita Corporation Tamaki Plant

Manufacturer's address: 704-19, Nojino, Tamaki-cho, Watarai-gun, Mie-ken 519-0497, Japan

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer and its merchandising companies retain the following technical documentation in anticipation of the inspection that may be conducted by the authorities concerned.

User's instruction that conforms to the applicable specifications.

Technical drawings.

Descriptions of the procedures that guarantee the conformity.

Other technical information.

Kyocera Mita America Inc.

### **CE Marking Directive**

According to Council Directive 89/336/EEC and 73/23/EEC

Manufacturer: Kyocera Mita Corporation Tamaki Plant

Manufacturer's address: 704-19, Nojino, Tamaki-cho, Watarai-gun, Mie-ken 519-0497, Japan

Declares that the product

Product name: Color Laser Printer

Model number: FS-C8008N

(as tested with enhancement optional units; Duplex unit PD-800, Paper Feeder PF-30A, Document Finisher DF-31 etc.)

Conforms to the following product specifications:

EN 55 022: 1998 Class B

EN 61 000-3-2: 1995

EN 61 000-3-3: 1995

EN 55 024: 1998

EN 60 950: 1992+A1+A2+A3+A4+A11

EN 60 825-1: 1994+A11

The manufacturer and its merchandising companies retain the following technical documentation in anticipation of the inspection that may be conducted by the authorities concerned.

User's instruction that conforms to the applicable specifications.

Technical drawings.

Descriptions of procedures that guarantee conformity.

Other technical information.

## **Declaration of Conformity for Australia**

Manufacturer: Kyocera Mita Corporation Tamaki Plant  
Manufacturer's address: 704-19, Nojino, Tamaki-cho, Watarai-gun, Mie-ken 519-0497, Japan  
declares that the product

Product name: Color Laser Printer  
Model name: FS-C8008N

Description of devices: This Page Printer Model FS-C8008N is the 31 ppm (monochrome)/8 ppm (color), A4 size and utilized plane paper; laser; dry toner; etc. The printer can be equipped with several enhancement optional units as a paper feeder as PF-30A, a duplex unit as PD-800, a mailbox/sorter as SO-30, IB-21E, etc.

conforms to the following product specifications:

AS/NZS 3548: 1995 (EN 55 022: 1998 Class B)  
IEC60950 (EN 60 950: 1992+A1+A2+A3+A4+A11)  
IEC60825-1 (EN 60 825-1: 1994+A11)

The manufacturer and its merchandising companies retain the following technical documentation in anticipation of the inspection that may be conducted by the authorities concerned.

User's instruction that conforms to the applicable specifications

Technical drawings

Descriptions of procedures that guarantee conformity

Other technical information

The manufacturer has been employed with ISO9001 scheme. JQA and BS have attested the manufacturer.

Kyocera Mita Australia Pty., Ltd.  
6-10 Talavera Road, North Ryde, NSW 2113, Australia  
Telephone: +61 2-9888-9999  
Fax: +61 2-9888-9588

## **Canadian Department of Communications compliance statement**

This Class B digital apparatus complies with Canadian ICES-003.

## **Avis de conformité aux normes du ministère des Communications du Canada**

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## **ISO 7779**

Maschinenlärminformationsverordnung 3. GSGV, 18.01.1991: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß ISO 7779.

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**ENERGY STAR®**

As an ENERGY STAR Partner, we have determined that this product meets the ENERGY STAR guidelines for energy efficiency.

The basic objective of the ENERGY STAR Program is to reduce environmental pollution by encouraging the manufacture and sale of equipment that uses energy more efficiently.

This printer is equipped with a sleep timer function that conforms with the standards of the ENERGY STAR Program. This function makes it possible to reduce the amount of electrical power consumed by the printer. For maximum power savings, turn off the printer's power supply when not using the printer for extended periods of time.

For details on the sleep timer function and printer power consumption, refer to this manual.

Initial settings of the sleep timer function and power saved using the sleep timer function:

|           | Initial sleep mode setting | Power consumption in sleep mode  |
|-----------|----------------------------|--|
| FS-C8008N | 30 minutes (30 minutes)    | 22 W (35 W) [for U.S.A. and Canada]<br>26 W (35 W) [For Europe, Asia, and other countries] |

( ): ENERGY STAR program guideline

**Group for Energy Efficient Appliances (GEEA)**

The goal of GEEA is efficient use of energy. This product has a high-efficiency profile and meets the criteria for receiving the GEEA-Label.

| Initial sleep mode setting | Power Consumption |             |
|----------------------------|-------------------|-------------|
|                            | Power off         | Sleep mode  |
| 30 min. (30 min.)          | 1 W (1 W)         | 26 W (30 W) |

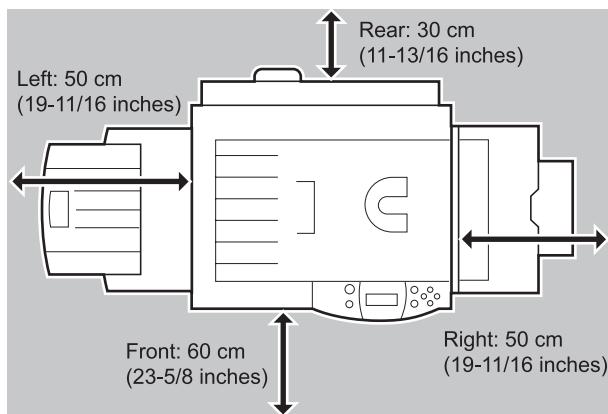
( ): GEEA criteria

# ⚠ Installation Precautions

## Environment

### ⚠ CAUTION

- Avoid placing the printer on or in locations which are unstable or not level. Such locations may cause the printer to fall down or fall over. This type of situation presents a danger of personal injury or damage to the printer. .... 
- Avoid locations with humidity or dust and dirt. If dust or dirt becomes attached to the power plug, clean the plug to avoid the danger of fire or electrical shock. .... 
- Avoid locations near radiators, heaters, or other heat sources, or locations near flammable items, to avoid the danger of fire. .... 
- To keep the printer cool and facilitate changing of parts and maintenance, allow access space as shown below. Leave adequate space, especially around the side cover, to allow air to be properly ventilated out of the printer. .... 



- Always use the caster stoppers to stabilize the printer once it is in place to keep it from moving and/or falling over and causing injury. .... 

## Other Precautions

- Adverse environmental conditions may affect the safe operation and performance of the printer. Install in an air-conditioned room (recommended room temperature: around 20 °C, humidity: around 65 % RH) and avoid the following locations when selecting a site for the printer.
  - Avoid locations near a window or with exposure to direct sunlight.
  - Avoid locations with vibrations.
  - Avoid locations with drastic temperature fluctuations.
  - Avoid locations with direct exposure to hot or cold air.
  - Avoid poorly ventilated locations.
- If the floor is delicate against casters, when this product is moved after installation, the floor material may be damaged.

## Power Supply/Grounding the Printer

### **⚠ WARNING**

- DO NOT use a power supply with a voltage other than that specified. Avoid multiple connections in the same outlet. These types of situations present a danger of fire or electrical shock...
- Plug the power cord securely into the outlet. If metallic objects come in contact with the prongs on the plug, it may cause a fire or electric shock. ....
- Always connect the printer to an outlet with a ground connection to avoid the danger of fire or electrical shock in case of an electric short. If an earth connection is not possible, contact your service representative. ....



### Other Precautions

- Connect the power plug to the closest outlet possible to the printer.

## Handling of Plastic Bags

### **⚠ WARNING**

- Keep the plastic bags that are used with the printer away from children. The plastic may cling to their nose and mouth causing suffocation. ....



# ⚠ Precautions for Use

## Cautions when Using the Printer

### ⚠ WARNING

- DO NOT place metallic objects or containers with water (flower vases, flower pots, cups, etc.) on or near the printer. This type of situation presents a danger of fire or electrical shock should they fall inside. .... 
- DO NOT remove any of the covers from the printer as there is a danger of electrical shock from high voltage parts inside the printer. .... 
- DO NOT damage, break or attempt to repair the power cord. DO NOT place heavy objects on the cord, pull it, bend it unnecessarily or cause any other type of damage. These types of situations present a danger of fire or electrical shock. .... 
- NEVER attempt to repair or disassemble the printer or its parts as there is a danger of fire, electrical shock or damage to the laser. If the laser beam escapes, there is a danger of it causing blindness. .... 
- If the printer becomes excessively hot, smoke appears from the printer, there is an odd smell, or any other abnormal situation occurs, there is a danger of fire or electrical shock. Turn the power switch OFF (○) immediately, remove the power plug from the outlet and contact your service representative. .... 
- If anything harmful (paper clips, water, other fluids, etc.) falls into the printer, turn the power switch OFF (○) immediately. Next, remove the power plug from the outlet to avoid the danger of fire or electrical shock. Then contact your service representative. .... 
- DO NOT remove or connect the power plug with wet hands, as there is a danger of electrical shock. .... 
- ALWAYS contact your service representative for maintenance or repair of internal parts. .... 

### ⚠ CAUTION

- DO NOT pull the power cord when removing it from the outlet. If the power cord is pulled, the wires may become broken and there is a danger of fire or electrical shock. (ALWAYS grasp the power plug when removing the power cord from the outlet.) .... 
- ALWAYS remove the power plug from the outlet when moving the printer. If the power cord is damaged, there is a danger of fire or electrical shock. .... 
- If the printer will not be used for a short period of time (overnight, etc.), turn the power switch OFF (○). If it will not be used for an extended period of time (vacations, etc.), remove the power plug from the outlet for safety purposes during the time the printer is not in use. .... 
- For safety purposes. ALWAYS remove the power plug from the outlet when performing cleaning operations. .... 
- If dust accumulates within the printer, there is a danger of fire or other trouble. It is therefore recommended that you consult with your service representative in regard to cleaning of internal parts. This is particularly effective if accomplished prior to seasons of high humidity. Consult with your service representative in regard to the cost of cleaning the internal parts of the printer. .... 

### **Other Precautions**

- DO NOT place heavy objects on the printer or cause other damage to the printer.
- DO NOT open the front cover, turn off the main switch, or pull out the power plug during printing.
- During printing, some ozone is released, but the amount does not cause any ill effect to one's health. If, however, the printer is used over a long period of time in a poorly ventilated room or when printing an extremely large number of copies, the smell may become unpleasant. To maintain the appropriate environment for print work, it is suggested that the room be properly ventilated.
- DO NOT touch electrical parts, such as connectors or printed circuit boards. They could be damaged by static electricity.
- DO NOT attempt to perform any operations not explained in this handbook.
- CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- If the printer will not be used for an extended period of time, remove the paper from the cassette, return it to its original package and reseal it.

### **Cautions for Toner Handling**

#### **▲ CAUTION**

- Do not incinerate toner and toner containers. Dangerous sparks may cause burn. ....
- Never open the toner container. ....
- Make sure not to inhale the toner, and not to rub your eyes or touch your mouth with the hands stained with the toner. And make sure not to stick to your skin. ....
- For the disposal of old toner container, consult your dealer. Or dispose of the toner or toner containers in accordance with Federal, State and Local rules and regulations. ....
- Keep away the toner container. ....



## For More Information...

| Item   | Description  |
|--|--|
| Installation Guide<br>(paper manual)                               | Describes procedures from printer setup to printing a test page.   |
| Quick Reference Guide<br>(paper manual)                            | Describes common information about the printer such as loading paper, understanding messages, etc. This guide can be retained in the plastic pocket at the printer.  |
| The following documents are stored in the CD-ROM as PDF documents. |  |
| Operation Guide (this manual)                                      | Guides you through topics concerning the operations and maintenance of the printer.  |
| KX Printer Drivers Operation Guide                                 | Describes how to install and set the printer driver.   |
| PRESCRIBE Commands Technical Reference                             | PRESCRIBE is the native language of the Kyocera Mita printers. This Technical Reference contains the information about how the printing is performed using the PRESCRIBE commands as well as the font and emulation description. Also included is a list of permanent parameters and their explanation needed when customizing your printer. |
| PRESCRIBE Commands Command Reference                               | Gives a detailed explanation of the PRESCRIBE command syntax and parameters with the aid of print examples.  |

## **Guide to the Operation Guide**

This Operation Guide has the following chapters:

### ***Chapter 1 Introduction***

This chapter explains printer features and the names of parts.

### ***Chapter 2 Handling Paper***

This chapter explains the types of paper that can be used with the printer.

### ***Chapter 3 Using the Operator Panel***

This chapter explains the message display, indicators and keys on the operator panel, and how to make various settings from the operator panel.

### ***Chapter 4 Troubleshooting***

This chapter explains how to handle printer problems that may occur, such as paper jams.

### ***Chapter 5 Maintenance***

This chapter explains how to replace the toner container and how to care for your printer.

### ***Appendix A Options***

This appendix introduces the available options to be used with the printer.

### ***Appendix B Computer Interface***

This appendix explains the pin assignment and specifications for the printer's parallel interface, USB interface, and serial interface.

### ***Appendix C Technical Specifications***

This appendix lists the printer's specifications.

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# Chapter 1      Introduction

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Welcome to the professional color printer from Kyocera Mita. Using the Ecosys Color Printer, you can now print top quality documents at 31 pages per minute for monochrome and 8 pages per minute for color in A4, Letter, and A5 paper sizes.

The Kyocera Mita Ecosys Color FS-C8008N/DN Series printers are available in the following two models:

## **Ecosys Color FS-C8008N**

Basic model of the FS-C8008 Series. Equipped with two paper cassettes, each with a capacity for holding 500 standard-size sheets of paper.

## **Ecosys Color FS-C8008DN**

FS-C8008 Series model which is equipped with a duplexer (for two-sided printing) and a paper cassette with a capacity for holding 500 standard-size sheets of paper.

## 1.1 Features

This section outlines the common major printer features of the FS-C8008N and the FS-C8008DN Ecosys color laser printers.

### 1.1.1 General

#### **Components with an ultra-long product life**

The main printer components such as the imaging drum, development units, and fuser unit have an ultra-long product life.

The imaging drum has been developed using Kyocera's leading-edge ceramic technology that makes full use of amorphous silicon.

#### **USB (Universal Serial Bus) Interface**

This printer supports Full-Speed USB 2.0. Connection to a computer with a USB interface gives a higher communication speed than parallel interface connection.

#### **High-speed printing**

The printer supports print speeds of 31 pages per minute for monochrome outputs; and 8 pages per minute for color outputs. (Actual time varies according to page complexity.)

#### **Superb color printing quality and versatile color control**

This printer contains a mode that allows you to switch the gray level of each pixel between 2 bpp and 4 bpp (bits per pixel). The intelligent color calibration system automatically optimizes colors every time the printer is powered.

#### **Variety of paper sizes and types**

In addition to ordinary paper, you can use print media such as transparencies, labels, and other special papers for printouts.

#### **Sleep mode**

Conserves energy while printing is in standby.

### 1.1.2 Hardware

#### **Advanced Performance Data Processing**

A 400 MHz CPU, 128 MB of RAM, and the optional hard disk deliver ideal throughput for wide varying printing applications.

### Two expansion slots for hardware interfaces

The printer is equipped with two expansion slots for plugging in an optional network interface card and a hard disk.

### Standard bidirectional parallel interface

Ensures high-speed data transfer between the host computer and printer.

### Memory card slot

You can select and read the data in a memory card set in this slot from the printer operator panel.

### Large-capacity paper cassettes

Each paper cassette can hold approximately 500 sheets of 80 g/m<sup>2</sup> paper which is 0.1 mm thick. The printer also has a multipurpose tray that can hold approximately 150 sheets of nonstandard size paper. Printed sheets can be stacked in the face-down output tray or an optional face-up output tray.

### Displaying printer messages in any of eight languages

Printer messages can be displayed in English, French, German, Italian, Dutch, Danish, Spanish, or Swedish.

## 1.1.3 Software

### e-MPS

‘e-MPS’ is an abbreviation for ‘enhanced-Multiple Printing System,’ which is a post-processing function that combines electronic sorting, job retention, and virtual mailboxing.

When printing multiple copies of a document, the data is transferred from the computer to the printer only for the first copy; the data is then stored on the printer’s hard disk. Copies of the document are printed using the stored data.

Printing is performed faster with less computer spooling time and less network traffic.

Furthermore, printed data that is stored on the hard disk can be called up using job retention functions, such as Quick Copy etc., allowing you to quickly print additional copies of a document from the printer at any time, without needing to re-spool the document or start up the computer system.

### Printer control language PRESCRIBE

The printer uses PRESCRIBE, Kyocera Mita’s page printer control language with enhanced color graphics capabilities. The simple commands of PRESCRIBE allow the programmers to easily define pagination and device control.

### **KPDL3 (Kyocera Printer Description Language 3)**

The printer uses KPDL3, Kyocera's implementation of the PostScript page description language Level 3. The printer has 136 fonts that are compatible with Adobe PostScript fonts. (The printer also has 80 PCL fonts.)

### **PDF417 two-dimensional bar codes**

The printer has the built-in two-dimensional stacked bar codes of PDF 417 (Portable Data File 417).

### **Account Management System**

This printer comes equipped with an Account Management System function which records the number of pages printed by each department. The administrator can preset the maximum number of pages that each department will be allowed to print.

## **1.1.4 Networking**

### **Built-in and external network interfaces**

Because the network interface supports TCP/IP, IPX/SPX, NetBEUI and EtherTalk protocols, network printing is possible with various environments including Windows, Macintosh, UNIX and NetWare, etc.

### **Support for network printer monitor utility (KM-NET VIEWER)**

Allows network wide management of printers. See the readme file in the CD-ROM (supplied with the printer) for details.

## 1.2 Parts and Functions

This section provides explanations and illustrations for you to determine the parts and their functions. Try to be familiar with the names and functions of these parts for correct use and optimal performance.

### 1.2.1 Front

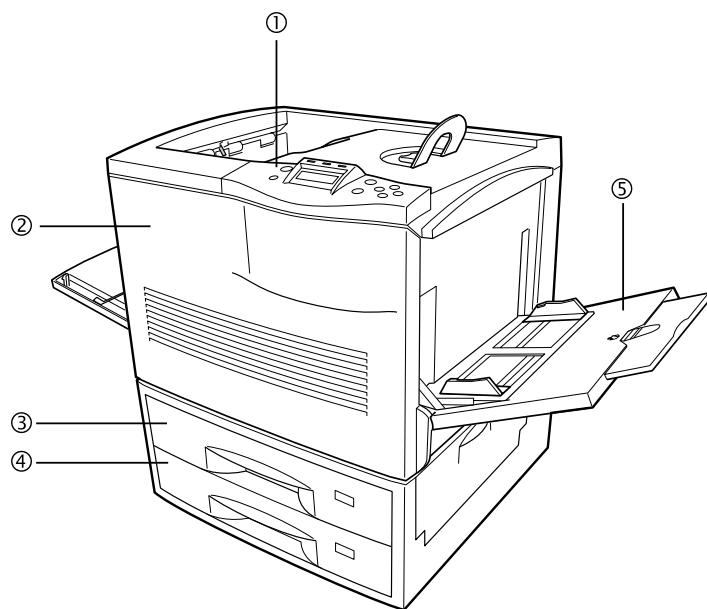


Figure 1-1

**1 Operator Panel**

Used to specify printer functions and display the printer operating status.

**2 Front Cover**

When open, this cover gives you access to the internal component for replacing toner containers. The cover must also be open to clear paper jam.

**3 Top Paper Cassette (FS-C8008N)/Duplex Drawer (FS-C8008DN)**

The cassette holds up to 500 sheets of A5 to A3 sizes. For the FS-C8008DN, the top drawer includes the duplexer for two-sided printing.

**4 Bottom Paper Cassette**

The cassette holds up to 500 sheets of A5 to A3 sizes as a second paper source (for the FS-C8008N).

**5 MP (Multi-Purpose) Tray**

The MP tray holds up to 150 sheets of standard and non-standard sizes with the following weight:

- 150 sheets for 64 to 90 g/m<sup>2</sup>
- 30 sheets for 160 g/m<sup>2</sup> or more

Transparencies, envelopes, etc. must be fed using this tray.

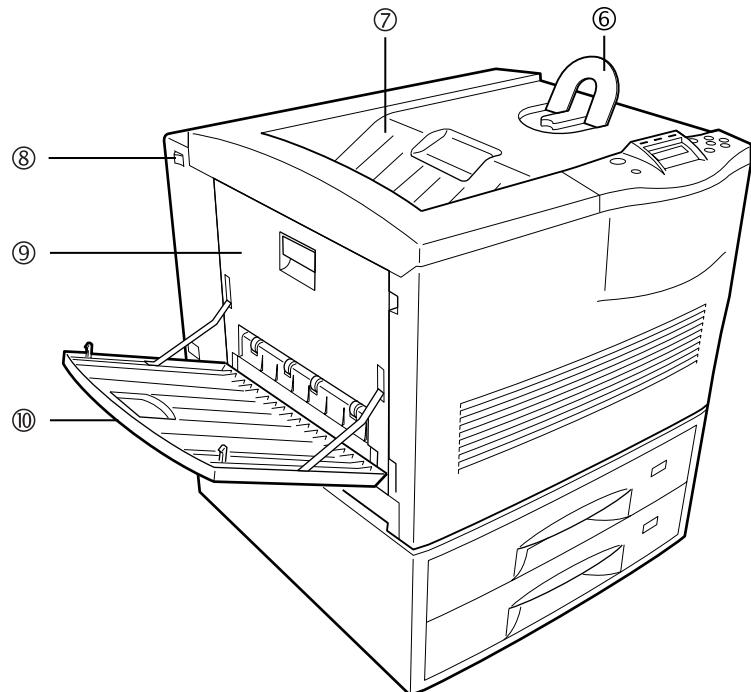


Figure 1-2

**6 Paper Stopper**

This stopper, when flipped up, prevents the printed sheet of large size from falling.

**7 Face-down Tray**

This tray receives printouts face down.

**8 Power Switch**

This switch turns printer power on and off.

 **In order to maintain operability and print quality, this printer operates a cooling fan for 30 minutes even after the power is turned off. For this reason, you should not unplug the power cord even after turning off the power.**

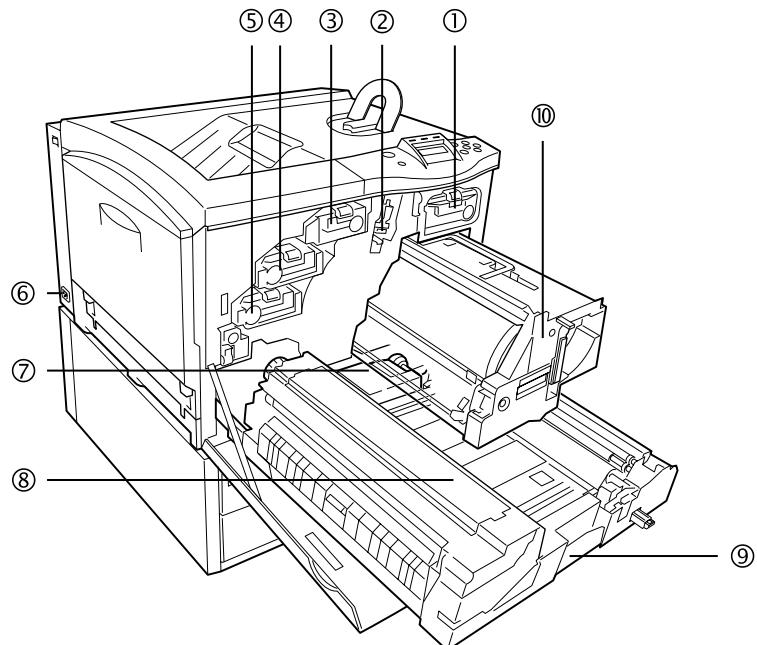
**9 Left Cover**

This cover is open by pulling the handle to clear paper jams.

**10 Face-up Tray**

This tray receives printouts face up.

### 1.2.2 Internal



**Figure 1-3**

**1 Black Toner Container**

This container holds black (K) toner. You must replace the container when the toner run out.

**2 Main Charger Unit**

This is an electrical component used to transfer the toner onto the drum unit. The main charger unit must be cleaned when you replace the toner container.

**3 Yellow Toner Container**

This container holds yellow (Y) toner. You must replace the container when the toner run out.

**4 Magenta Toner Container**

This container holds magenta (M) toner. You must replace the container when the toner run out.

**5 Cyan Toner Container**

This container holds cyan (C) toner. You must replace the container when the toner run out.

**6 Power Cord Connector**

This connector accepts the power cord supplied with the printer.



**In order to maintain operability and print quality, this printer operates a cooling fan for 30 minutes even after the power is turned off. For this reason, you should not unplug the power cord even after turning off the power.**

**7 Waste Toner Box**

This plastic box collects waste toner for later disposal. The box has a cap which is used to seal the box opening when being disposed of.

**8 Fuser Unit**

The fuser unit fixes the toner permanently on the paper. The fuser becomes very hot during printing.

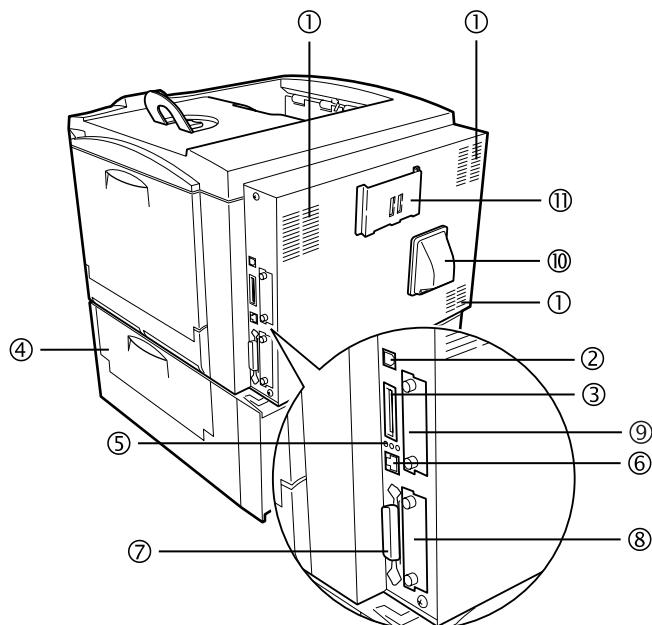
**9 Paper Transfer Unit**

The paper transfer unit transports paper from the paper source for developing and fixing images.

**10 Primary Transfer Unit**

This unit is used to create the image developed by toner and to transfer it onto the surface of the paper.

### 1.2.3 Rear



**Figure 1-4**

**1 Vents**

Air is purged through these vents to cool down the inside.

**2 USB Interface Connector**

This connector is a USB interface that conforms to the Full-Speed USB 2.0. Use a USB cable between this connector and the USB port on a computer.

**3 Memory Card Slot**

This slot receives a memory card. A memory card can hold fonts, macros, forms, etc., that can be downloaded in the printer's memory. For details, see [Appendix A Options, section A.3.1 Memory Card on page A-7](#).

**4 Paper Feeder Right Cover**

This cover is opened to clear paper jams in the paper feeder section.

**5 Network indicators**

These indicators light according to the communication status with the network.

10BASE-T indicator (10): Lights when you are connected to the network at 10 Mbps.

100BASE-TX indicator (100): Lights when you are connected to network at 100 Mbps.

Status indicator (ST): Flashes during data communication.

**6 Network Interface Connector**

Connects to the network via a 10BASE-T/100BASE-TX network cable.

**7 Parallel Interface Connector**

This connector is for a standard Centronics parallel interface cable from the computer. Connect this connector to the computer's parallel port.

**8 Option Interface Card Slot (Network/Serial) [OPT]**

This slot holds an optional network interface card for network printing or a serial interface board kit. (An optional Hard disk can't be used in this slot.) For details see [Appendix A Options](#).

**9 Hard Disk Slot (HDD)**

This slot holds an optional hard disk for storing print jobs. A Kyocera Mita manufactured hard disk must be used. For details, see [Appendix A Options, section A.3.8 Hard Disk on page A-12](#).

**10 Exhaust Duct**

Air is purged through these vents to cool down the inside.

**11 Quick Reference Guide Holder**

Use this holder to store the included Quick Reference Guide for easy access.

# Chapter 2 Handling Paper

---

The printer can use a variety of media in various sizes. However, any media you will choose to use with the printer must be in accordance with the guidelines and specifications in this chapter. Use of paper not satisfying these guidelines and specifications may cause problems such as frequent paper jams, poor quality printing, and possible damage to the printer mechanism.

Even meeting the instructions provided in this chapter, special media such as transparencies, labels, envelopes, non-standard-size paper must be fed directly from the printer's MP (multi-purpose) tray and delivered in the face-up tray in 'straight path' manner. For details on use of MP tray, see *[Chapter 3 Using the Operator Panel, section 3.10.1 MP Tray Mode on page 3-69](#)*.

## 2.1 General

The Ecosys Color FS-C8008 Series printers are designed for high-grade bond (copy) paper, like those widely used for ordinary xerographic copiers. The printers will also support other types of paper as long as they meet the standards explained in this chapter.

Selecting the right paper is very important. Use of unsuitable paper can cause paper jams, misfeed, curling, poor print quality, and even worse, printer damage. This chapter shows you how to use your printer in a way that will ensure efficient, error-free printing and minimal printer damage. This practice will increase your office productivity.



Note

**Kyocera Mita will not be liable for any problems that may occur if you use paper that does not meet these standards.**

### 2.1.1 Available paper types

The FS-C8008 Series printers can use almost any type of printer paper. These printers accept paper used for xerographic copiers as well.

Paper comes in three generic grades: economy, standard, and premium. The grades are determined by how easily the paper can pass through the printer. This depends on the smoothness, size, moisture content, and cutting of the paper. The higher the grade, the less risk of problems (such as paper jams), and higher the print quality.

The differences in paper characteristics of different paper makers also affect the printer performance. High-performance printers can produce high-quality results only when the right types of paper are selected. Low-priced paper is not always economical, especially if it ends up causing frequent printing problems.

Paper of the different grades is available in basis weights (explained later). The recommended basis weights of paper for the printers are 16, 20, and 24 pounds. When expressed in grams per square meter, the recommended basis weights range from 60 to 90 g/m<sup>2</sup>.

### 2.1.2 Paper specifications

*Table 2-1* summarizes the basic paper specifications. Details are given on the subsequent pages.

| Item                  | Values  |
|-----------------------|---|
| Weight (basis weight) | Cassette: 64 to 90 g/m <sup>2</sup> (17 to 24 lb/ream)<br>MP tray: 64 to 220 g/m <sup>2</sup> (17 to 58 lb/ream) <sup>†</sup> |
| Thickness             | 0.086 to 0.110 mm (3.4 to 4.3 mils)   |
| Dimensions            | See <i>Table 2-3</i> .  |
| Dimensional accuracy  | ±0.7 mm (±0.0276 inches)  |
| Squareness of corners | 90 ±0.2 °   |
| Moisture content      | 4 to 6 %  |

**Table 2-1**

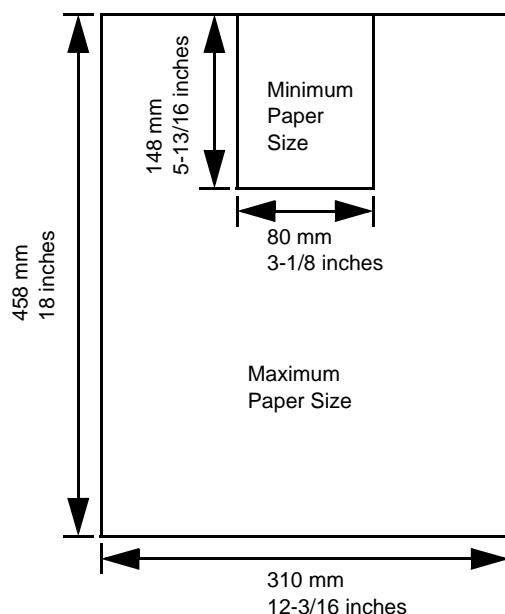
| Item               | Values       |
|--------------------|--------------|
| Direction of grain | Long grain   |
| Pulp content       | 80 % or more |

**Table 2-1 (Continued)**

† Paper of 135 to 220 g/m<sup>2</sup> thick should be A4 or Letter size and fed laterally.

### 2.1.3 Minimum and Maximum Paper Sizes

The minimum and maximum paper sizes are as follows. For non standard paper such as cut-sheet, the MP (multi-purpose) tray must be used.

**Figure 2-1**

### 2.1.4 Recommended Paper

The following products are recommended for use with the printer for optimum performance.

| Size          | Product                | Weight                      |
|---------------|------------------------|-----------------------------|
| Letter, Legal | Hammermill LASER PRINT | 90 g/m <sup>2</sup> (24 lb) |
| A4, A3        | NEUSIEDLER COLOR COPY  | 90 g/m <sup>2</sup>         |

**Table 2-2**

## 2.2 Selecting the Right Paper

To get clean, crisp printouts from laser printers all the time, select high-quality printer paper that meets the printer's requirements. Laser printers use laser beams, electrostatic discharge, toner, and heat, all of which affect the paper. Furthermore, paper slide, bends, and twists as it passes through laser printers during printing. Therefore, printer paper must be able to withstand such great stress.

This section describes the major considerations for selecting the right printing paper.

### 2.2.1 Guidelines

#### Paper conditions

Do not use paper with folded edges, curls, warps, smudges, tears, or embossing. Also do not use paper containing lint, clay, or paper debris. Using such paper may cause illegible printing, misfeeds, paper jams, etc., and shorten the product life of the printer. Never use paper with surface coating or other surface treatment. The paper surface should be as smooth and even as possible.

#### Paper composition

Do not use paper with surface-coating or containing plastic or carbon. The heat of fusing causes such paper to emit toxic fumes.

Bond paper should have at least an 80 % pulp content. The percentage of cotton and other fibers should not exceed 20 %.

#### Paper sizes

**Table 2-3** lists the standard paper sizes and dimensions. Note that certain paper sizes are available only for MP tray feeding (as remarked) and face-up tray delivering. For details on using MP tray, see [Chapter 3 Using the Operator Panel, section 3.10.1 MP Tray Mode on page 3-69](#).

The dimensional tolerances for these paper sizes are  $\pm 0.7$  mm ( $\pm 0.0276$  inches) for both length and width of paper. The corner angles must be  $90 \pm 0.2^\circ$ .

| MP tray           | Size                        | Cassette or MP tray | Size                         |
|-------------------|-----------------------------|---------------------|------------------------------|
| Monarch           | 3-7/8 $\times$ 7-1/2 inches | Ledger              | 11 $\times$ 17 inches        |
| Business          | 4-1/8 $\times$ 9-1/2 inches | Legal               | 8-1/2 $\times$ 14 inches     |
| Commercial #9     | 3-7/8 $\times$ 8-7/8 inches | Letter              | 8-1/2 $\times$ 11 inches     |
| Commercial #6-3/4 | 3-5/8 $\times$ 6-1/2 inches | Executive           | 7-1/4 $\times$ 10-1/2 inches |
| ISO DL            | 110 $\times$ 220 mm         | Folio               | 210 $\times$ 330 mm          |
| ISO C5            | 162 $\times$ 229 mm         | ISO A3              | 297 $\times$ 420 mm          |
| ISO A6            | 105 $\times$ 148 mm         | ISO A4              | 210 $\times$ 297 mm          |
| JIS B6            | 128 $\times$ 182 mm         | ISO A5              | 148 $\times$ 210 mm          |
| ISO B5            | 176 $\times$ 250 mm         | JIS B5              | 182 $\times$ 257 mm          |
| A3 Wide           | 310 $\times$ 432 mm         | JIS B4              | 257 $\times$ 364 mm          |

**Table 2-3**

| MP tray       | Size                           | Cassette or MP tray | Size              |
|---------------|--------------------------------|---------------------|-------------------|
| Ledger Wide   | 310 × 440 mm                   | ISO C4              | 229 × 324 mm      |
| Statement     | 5-1/2 × 8-1/2 inches           | Oficio II           | 8-1/2 × 13 inches |
| Hagaki        | 100 × 148 mm                   | 8K                  | 273 × 394 mm      |
| Oufuku Hagaki | 148 × 200 mm                   | 16K                 | 197 × 273 mm      |
| Youkei 2      | 114 × 162 mm                   |                     |                   |
| Youkei 4      | 105 × 235 mm                   |                     |                   |
| Custom        | 80 × 148 mm to<br>310 × 458 mm |                     |                   |

Table 2-3 (Continued)

## 2.2.2 Paper properties

### Smoothness

Paper should have a smooth, uncoated surface. Paper with a rough or sandy surface can cause gaps in printouts. However, paper with surfaces that are too smooth may cause multiple-sheet feeding and fogging problems (fogging is a gray background effect).

### Basis weights

Basis weight is the weight in pounds of 500 sheets (called a ream) of paper cut to the basic size, which is 17 × 22 inches. The number of sheets in a ream and the basic paper size relating to basis weights depend on paper classifications. In the metric system, the basis weight is expressed in grams per square meter (g/m<sup>2</sup>).

Paper that is too heavy or too light may cause misfeeds, jams, and premature wear of printer parts. Uneven weight of paper can cause multiple-sheet feeding, print defects, poor toner fusing, blurring, and other print quality problems. The recommended basis weights for this printer are between 64 and 90 g/m<sup>2</sup> (17 to 24 lb per ream).

When you use paper with basis weights of 135 to 220 g/m<sup>2</sup>, use the face-up tray for high-quality printouts.

### Paper Weight Equivalence Table

The paper weight is listed with expression in U.S. bond weight (lb) and European metric (g/m<sup>2</sup>). The shaded point indicates the standard weight.

| U. S. Bond Weight (lb) | Europe Metric Weight (g/m <sup>2</sup> ) |
|------------------------|--|
| 16                     | 60                                       |
| 17                     | 64                                       |
| 20                     | 75                                       |
| 21                     | 80                                       |
| 22                     | 81                                       |
| 24                     | 90                                       |
| 27                     | 100                                      |

Table 2-4

| U. S. Bond Weight (lb) | Europe Metric Weight (g/m <sup>2</sup> ) |
|------------------------|--|
| 28                     | 105                                      |
| 32                     | 120                                      |
| 34                     | 128                                      |
| 36                     | 135                                      |
| 39                     | 148                                      |
| 42                     | 157                                      |
| 43                     | 163                                      |
| 47                     | 176                                      |
| 53                     | 199                                      |

Table 2-4 (Continued)

### Thickness (Caliper)

Thick paper is called high-caliper paper and thin paper is called low-caliper paper. Paper used by the printer should be neither too thick nor too thin. If you encounter paper jam, multiple-sheet feed, or too light printing problems, the paper may be too thin. If you encounter paper jam or too heavy printing problems, the paper may be too thick. The recommended thickness of a sheet for this printer is between 0.086 and 0.110 mm (from 3.4 to 4.3 mils).

### Moisture content

Moisture content is the percentage of the weight of water in paper. Moisture affects the appearance, feeding, curling, electrostatic properties, toner fusing of the paper.

The moisture content of paper varies with the relative humidity in the room. If the room is too humid, paper will absorb more moisture. The edges will swell and the paper will become wavy. If the room is too dry and the paper loses moisture, the edges shrink and tighten, and the print contrast may be degraded.

Wavy or tight edges can cause paper misfeeds and misalignments. The recommended moisture content is between 4 and 6 %.

To maintain the correct moisture content level, store the paper in an environment that allows moisture control. These are tips for moisture control:

- Store paper in a cool, dry place.
- Leave packages of paper wrapped as long as possible. Rewrap unused paper.
- Return paper to its paper carton, whenever possible. Place the cartons on a pallet or other furniture so that they are not in direct contact with the floor.
- Before using paper stored for an extended period of time, condition it in the printer's environment for at least 48 hours.
- Do not expose paper to heat, direct sunlight, or damp.

### Grain

Technically, grain is the direction of paper in the paper machine. Grain is parallel with the direction of movement in the paper machine. Grain long means that the grain runs along the length of the sheet, and grain short means that the grain runs along the width of the sheet. Because grain short causes paper feed problems, always select grain long for the printers.

### 2.2.3 Other properties of paper

#### Porosity

The density of paper structure, which indicates the compactness of the fiber bonding. It is also the characteristic that allows air to pass through paper (i.e., air permeability).

#### Stiffness

The ability of paper to resist deformation under stress. In the printer, limp paper can buckle and too stiff paper can bind. Both conditions result in paper jams.

#### Curl

Most paper naturally tends to curl one way. To produce flat printouts, load the paper sheets so that the upward pressure from the printer can correct their curling. When loading paper, it is also important to distinguish between the front side and backside of the paper. Be sure to follow the paper loading instructions printed on the paper carton.

#### Electrostatic discharge

During the printing process, paper is given an electrostatic charge to attract the toner. Therefore, the paper must discharge the static electricity so that the printouts do not stick to each other in the output tray.

#### Whiteness

The contrast of printed images depends on the whiteness of the paper. Whiter paper produces sharper and clearer images.

#### Quality control

Uneven paper sizes, corners that are not square, jagged paper edges, irregularly cut sheets, torn edges and corners, etc. can cause various printer troubles. Before purchasing paper, find out whether the paper store always takes measures to prevent such problems in its products.

#### Packaging

Paper sheets should be shipped in strong cartons to protect them from damage during transportation. Before purchasing paper, make sure the store ships its products in proper packages.

## 2.3 Loading Paper

The following explains the procedure for loading paper in the cassette and the MP tray.



**Fan the media (paper/transparencies), then tap it on a level surface to avoid media jams or skewed printing.**

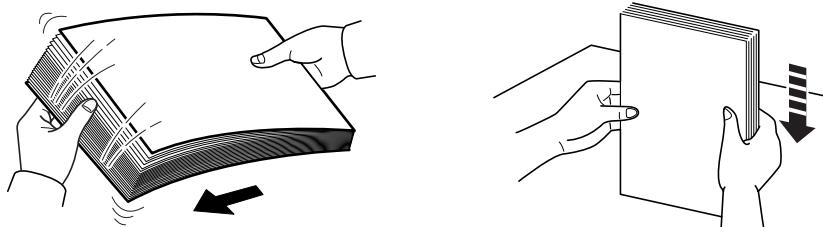


Figure 2-2

### 2.3.1 Loading Paper into the Cassette

Perform the following procedure to load paper into the cassette.

- 1 Pull out the paper feed cassette until it stops.
- 2 Lift the paper feed roller located on the right side of the cassette upright.

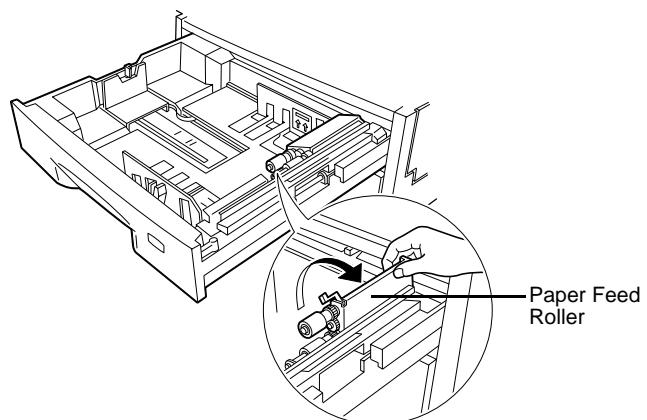


Figure 2-3

**3** Adjust the position of the paper guides according to the size of the paper you will use. To move the paper guides, press the green-colored knobs.

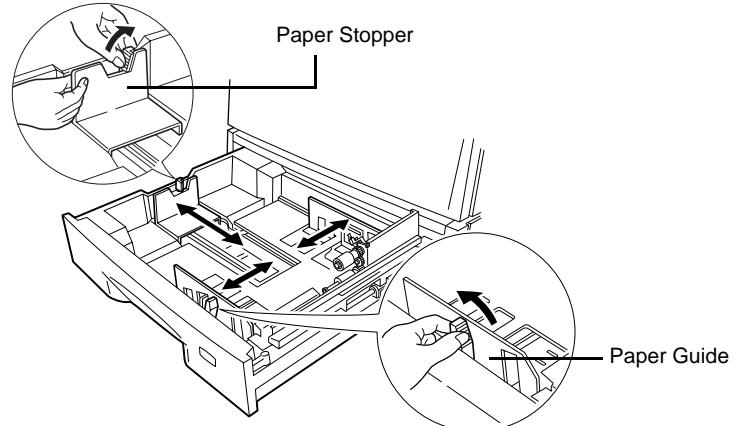


Figure 2-4

**4** Align the paper stopper correctly with the markings in the cassette that match the paper size:

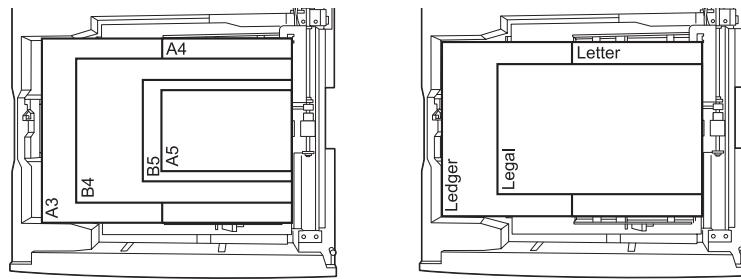


Figure 2-5

**5** Square the edges of the paper and insert into the paper feed cassette. Be sure that the paper does not exceed the paper limit indicators. The paper feed cassette can hold up to about 500 sheets. Printing is performed on the underside of the paper.

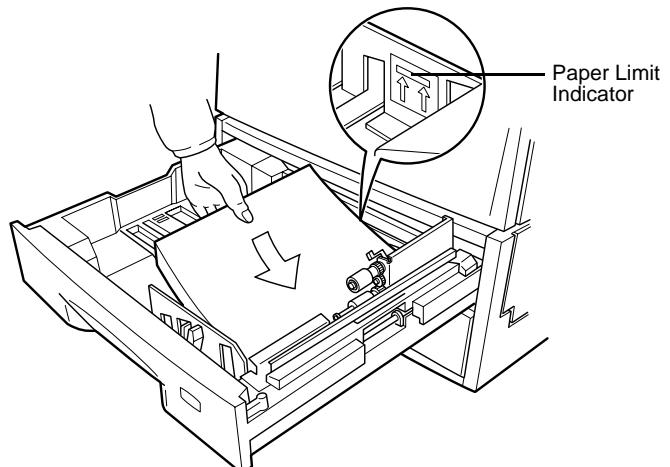


Figure 2-6

**6** Lower the paper feed roller to its original position. Close the paper feed cassette.

### 2.3.2 Loading Paper into the MP (Multi-Purpose) Tray

Perform the following procedure to load paper into the MP tray.

- 1 Open the MP tray located on the right side of the printer.

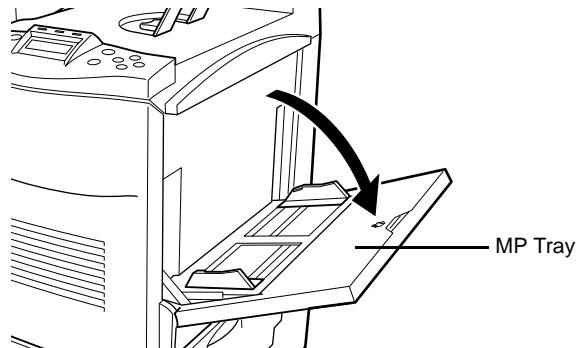


Figure 2-7

- 2 Adjust the position of the paper guides according to the size of the paper you will use.

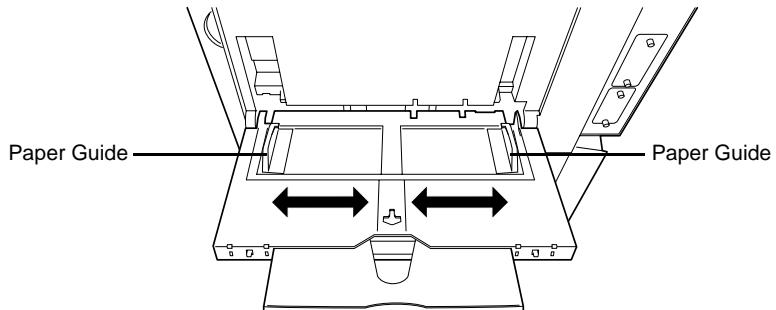


Figure 2-8

- 3 Square the edges of the paper and insert into the MP tray.

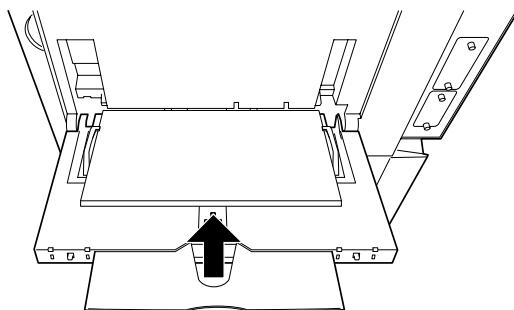


Figure 2-9

- 4 Set the MP tray paper size on the printer's operator panel. Refer to [Chapter 3 Using the Operator Panel, section 3.10.2 Setting MP Tray Paper Size on page 3-70](#).

## 2.4 Special Paper

Besides plain paper, this printer can use the following types of special paper:

| Paper type to be used                     | Media type to be selected |
|---|---------------------------|
| Thin paper (60 to 64 g/m <sup>2</sup> )   | Vellum                    |
| Thick paper (90 to 200 g/m <sup>2</sup> ) | Thick                     |
| Colored paper                             | Color                     |
| Recycled paper                            | Recycle                   |
| Overhead projector transparencies         | Transparency              |
| Postcards                                 | Cardstock                 |
| Envelopes                                 | Envelope                  |
| Label                                     | Labels                    |

**Table 2-5**

You can assign one of these special paper type to a paper cassette or MP (multi-purpose) tray by using the printer's operator panel keys. Then, the printer can automatically select the paper cassette or multi-purpose tray to feed the special paper from and internally adjust the electrical parameters for optimum printing performance according to the special paper type. For details, see *Chapter 3 Using the Operator Panel, section 3.10.4 Setting the Cassette Paper Type on page 3-73*.

Note that some types of special paper do not allow feeding from the paper feeder cassette or duplex (two-sided) printing.

### 2.4.1 Selecting the Special Paper

Since special paper differs significantly in paper composition and quality, special paper is more likely to cause problems than white bond paper during printing. When using special paper, be sure that they are manufactured for photocopiers and/or laser printers.

Before purchasing any special paper, make a test print using the printer and check whether the results are satisfactory.



Note

**Kyocera Mita shall not be liable for any danger to a person or machine that is caused by using special paper (e.g., fumes emitted from the special paper).**

To avoid problems, stack transparencies, labels, or envelopes on the tray or cassette face up.

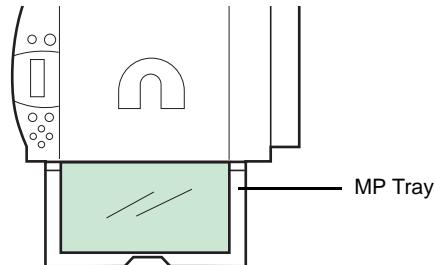
Major considerations for each type of special paper are given below.

### Transparency

Transparencies for overhead projectors must withstand the heat of fusing during the printing process. The recommended transparency product is as follows:

3M CG3700 (Letter, A4)

Transparencies must be placed on the MP (multi-purpose) tray with the long edge towards the printer. To avoid problems, stack transparencies face up on the face-up tray.



**Figure 2-10**

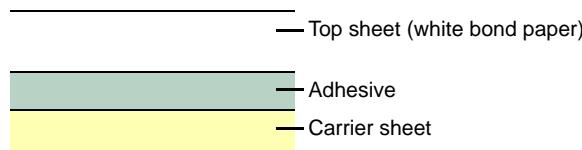
When unloading transparencies (e.g., for clearing jams), hold them carefully by the edges to avoid leaving fingerprints on them.

### Adhesive-backed labels

Label paper must be fed manually.

For printing on labels, use extreme care so that the adhesive may not come in direct contact with any part of the printer. Adhesives that stick to the drum or rollers will cause printer damage.

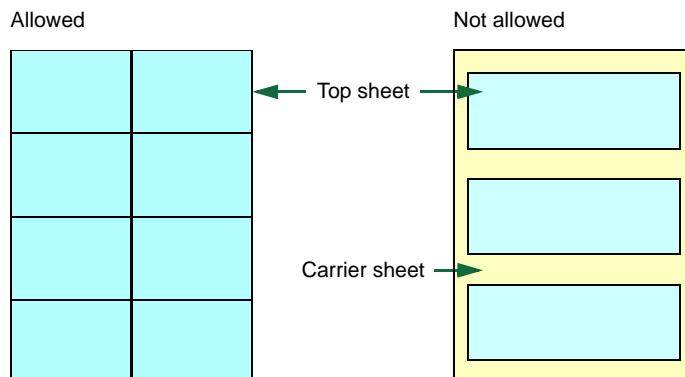
Labels consist of three parts. Printing is done onto the top sheet (also called the face sheet). The adhesive contains chemicals. The carrier sheet (also called the backing paper or liner) bears the top sheet. This composition of labels can cause more problems than other print forms during printing.



**Figure 2-11**

When using label paper, do not leave gaps between the arranged labels (i.e., top sheets). Labels arranged with gaps in-between can easily be peeled off during printing, causing serious jam problems.

When the label paper has extra margin around the label's outside edges that correspond to the margins of the printable area, do not remove the extra top sheet from the carrier sheet until printing is finished.



**Figure 2-12**

When selecting labels, make sure to use only those meeting the following requirements:

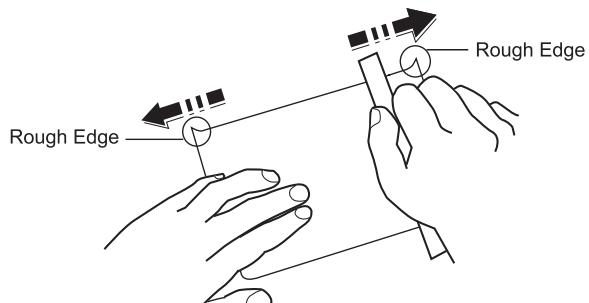
| Item                | Value                                     |
|---------------------|---|
| Top sheet weight    | 44 to 74 g/m <sup>2</sup> (12 to 20 lb)   |
| Total weight        | 104 to 151 g/m <sup>2</sup> (28 to 40 lb) |
| Top sheet thickness | 0.086 to 0.107 mm (3.9 to 4.2 mils)       |
| Total thickness     | 0.115 to 0.145 mm (4.5 to 5.7 mils)       |
| Moisture content    | 4 to 6 % (composite)                      |

**Table 2-6**

### Postcards

Fan the stack of postcards and align the edges before loading them in the MP tray. Make sure the postcards you are going to set are not curled. Feeding curled postcards may cause paper jams.

Some postcards have rough edges on the back (those are created when the paper is cut). In this case, put the postcards on a flat place and rub the edges with, for example, a ruler to smooth them.



**Figure 2-13**

## Envelopes

Envelopes must be fed manually.

Since the composition of an envelope is more complex than that of ordinary paper, it is not always possible to ensure consistent printing quality over the entire envelope surface.

Normally, envelopes have a diagonal grain direction. See section [Grain on page 2-6](#). This direction can easily cause wrinkles and creases when envelopes pass through the printer. Before purchasing envelopes, make a test print to check whether the printer accepts the envelope.

Other handling cautions follow:

- Do not use envelopes that have an encapsulated liquid adhesive.
- Avoid a long printing session for envelopes only. Extended envelope printing can cause premature printer wear.
- To avoid jams caused by curled envelopes, stack the printed envelopes no higher than 10 on the output tray.

## Colored paper

Colored paper should have the same specifications as the white bond paper listed. In addition, the pigments in the paper must be able to withstand the heat of fusing during the printing process (up to 200 °C or 392 °F).

## Pre-printed paper

Pre-printed paper should basically be bond paper. The inks on the paper must be able to withstand the heat of fusing during the printing process and must not be adversely affected by silicon oil. Do not use paper with any kind of coating, such as calendar stock.

## Recycled paper

Select recycled paper that has the same specifications as white bond paper. See [Table 2-1 on page 2-2](#). Recycled paper, however, does not have to be as white as white bond paper.



**Before purchasing recycled paper, make a test using the printer and check whether the print quality is satisfactory.**

# Chapter 3 Using the Operator Panel

---

This chapter provides the information you need to configure the Ecosys Color printer. In general you need to use the operator panel only to make default settings. You can make most changes to the printer settings using the printer driver through the application software.



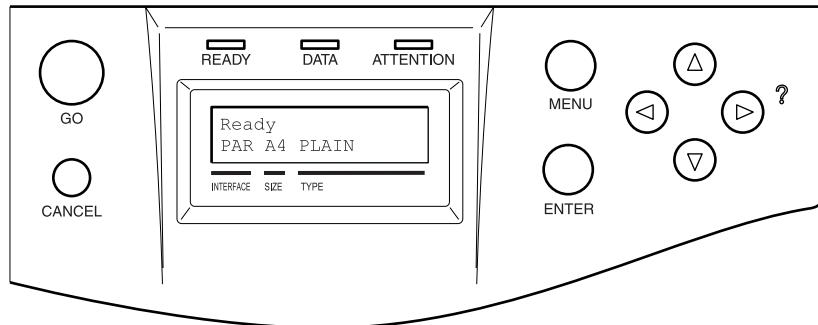
**Changes to printer settings made using a software application override changes made using the operator panel.**

You can also rely on other printer utilities such as Kyocera Mita PrintMonitor if you need to change settings that are not available on the printer driver. It will allow you remotely access to printer settings. Printer utilities are supplied in the CD-ROM supplied with the printer.

The chapter describes the operator panel in detail, including its menus and the procedures for changing various printer settings.

## 3.1 Understanding the Operator Panel

The operator panel on the top of the printer has a 2-line by 16-character liquid crystal display (LCD), eight keys, and three indicators (LED).



**Figure 3-1**

Messages that appear on the display and functions of indicators and keys are explained in the sections that follow.

### 3.1.1 Message Display

The message display on the operator panel shows:

- Status information, the eight messages listed below which are displayed during normal operation.
- Error codes, when the printer requires the operator's attention; as explained in [Chapter 4 Troubleshooting](#).

#### Status Information

| Message                      | Meaning   |
|------------------------------|---|
| Self test                    | The printer is performing self-diagnostics after power-up.  |
| Please wait                  | The printer is warming up and is not ready.<br>When the printer is switched on for the first time, this message will take several minutes.  |
| Please wait<br>(Calibrating) | The color calibration function is being performed automatically as you powered on the printer.<br>You can also execute this function manually on the operator panel. For details, see <a href="#">Section 3.13.12 Color Calibration on page 3-100</a> . |
| Ready                        | The printer is ready to print.  |
| Processing                   | The printer is receiving data to print. This is also shown when the printer is reading a memory card or hard disk.  |

**Table 3-1**

| Message          | Meaning  |
|------------------|--|
| Sleeping         | The printer is in sleep mode. The printer wakes from sleep mode whenever a key on the operator panel is pressed, the cover is opened or closed, or a print job is received. The printer then warms up and goes on-line. For details on sleep mode, see <a href="#">Sleep Timer Timeout Time on page 3-91</a> . |
| Cancelling data  | Jobs inside the printer are being canceled. To cancel a job, see <a href="#">Section 3.1.3 Keys on page 3-6</a> .  |
| Waiting          | The printer is waiting for the rest of print job before completing the last page. Pressing the <b>GO</b> key allows you to obtain the last page immediately. See below.  |
| FormFeed TimeOut | The printer is printing the last page after a waiting period.  |

Table 3-1 (Continued)

### Error codes

See [Chapter 4 Troubleshooting](#).

## 3.1.2 Indicators in Message Display

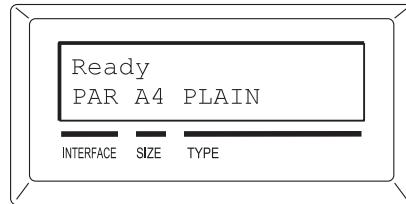


Figure 3-2

### Interface Indicator (INTERFACE)

The interface indicator shows the interface that is currently in use:

|            |  |
|------------|--|
| <b>PAR</b> | Parallel interface is in use.                  |
| <b>USB</b> | USB interface is in use.                       |
| <b>SER</b> | Serial (RS-232C) interface is in use. (option) |
| <b>NET</b> | Network interface is in use.                   |
| <b>OPT</b> | Network interface is in use. (option)          |
| <b>---</b> | No interface is in use.                        |

Each interface has a timeout time of 30 seconds during which the other interface should wait to receive a print job. Even a print job has been complete on the interface, you should wait for this period until the other interface begins printing the job.

### Paper Size Indicator (SIZE)

This indicator indicates:

- While the printer is in standby, the paper size of the cassette. The default paper cassette is determined by the operator panel keys. For details, see [Section 3.10 Paper Handling on page 3-69](#).
- While the printer is printing, the paper size used to format the document to print by the application software.

The abbreviations used to indicate the paper sizes and their dimensions are as follows:

|     |  |
|-----|--|
| A3  | ISO A3 (29.7 × 42 cm)                                  |
| A4  | ISO A4 (21 × 29.7 cm)                                  |
| A5  | ISO A5 (14.8 × 21 cm)                                  |
| A6  | ISO A6 (10.5 × 14.8 cm) <sup>†</sup>                   |
| B4  | JIS B4 (25.7 × 36.4 cm)                                |
| B5  | JIS B5 (18.2 × 25.6 cm)                                |
| B6  | JIS B6 (12.8 × 18.2 cm) <sup>†</sup>                   |
| LT  | Letter (8-1/2 × 11 inches)                             |
| LD  | Ledger (11 × 17 inches)                                |
| LG  | Legal (8-1/2 × 14 inches)                              |
| MO  | Monarch (3-7/8 × 7-1/2 inches) <sup>†</sup>            |
| BU  | Business (4-1/8 inches) <sup>†</sup>                   |
| DL  | ISO DL (11 × 22 cm) <sup>†</sup>                       |
| C4  | ISO C4 (22.9 × 32.4 cm) <sup>†</sup>                   |
| C5  | ISO C5 (16.2 × 22.9 cm) <sup>†</sup>                   |
| b5  | ISO B5 (17.6 × 25 cm) <sup>†</sup>                     |
| EX  | Executive (7-1/4 × 10-1/2 inches) <sup>†</sup>         |
| #6  | Commercial 6-3/4 (3-5/8 × 6-1/2 inches) <sup>†</sup>   |
| #9  | Commercial 9 (3-7/8 × 8-7/8 inches) <sup>†</sup>       |
| HA  | Japanese Postcard (10 × 14.8 cm) <sup>†</sup>          |
| OH  | Return Postcard (20 × 14.8 cm) <sup>†</sup>            |
| O2  | Oficio II (8-1/2 × 13 inches) <sup>†</sup>             |
| a3  | A3 Wide (31 × 43.2 cm) <sup>†</sup>                    |
| 1d  | Ledger Wide (31 × 44 cm) <sup>†</sup>                  |
| 8K  | 8 kai (27.3 × 39.4 cm) <sup>†</sup>                    |
| 16K | 16 kai (19.7 × 27.3 cm) <sup>†</sup>                   |
| ST  | Statement (5-1/2 × 8-1/2 inches) <sup>†</sup>          |
| FO  | Folio (21 × 33 cm) <sup>†</sup>                        |
| Y2  | Yokei 2 (11.4 × 16.2 cm) <sup>†</sup>                  |
| Y4  | Yokei 4 (10.5 × 23.5 cm) <sup>†</sup>                  |
| CU  | Custom Size (8 × 14.8 cm to 31 × 45.8 cm) <sup>†</sup> |

<sup>†</sup> Only with MP tray feeding

### Paper Type Indicator (TYPE)

This indicator shows the paper type defined for the current paper cassette. The paper type can be manually defined using the operator panel. For more information, see [Section 3.10 Paper Handling on page 3-69](#).

The following abbreviations are used:

|                |                           |
|----------------|---------------------------|
| (none)         | Auto                      |
| PLAIN          | Plain paper               |
| TRNSPRNCY      | Transparency <sup>†</sup> |
| PREPRINTE      | Pre-printed paper         |
| LABELS         | Labels <sup>†</sup>       |
| BOND           | Bond paper                |
| RECYCLED       | Recycled paper            |
| VELLUM         | Vellum <sup>†</sup>       |
| ROUGH          | Rough paper               |
| LETTERHEA      | Letterhead                |
| COLOR          | Colored paper             |
| PREPUNCH       | Pre-punched paper         |
| ENVELOPE       | Envelope <sup>†</sup>     |
| CARDSTOCK      | Card stock <sup>†</sup>   |
| COATED         | Coated paper              |
| THICK          | Thick paper               |
| CUSTOM1 (to 8) | Custom 1 (to 8)           |

<sup>†</sup> Only with MP tray feeding

### READY, DATA, and ATTENTION Indicators

The following indicators light during normal operation and whenever the printer needs operator's attention. Depending on the status of lighting, each indicator has the following meaning:

| Indicator   | Description   |
|---|---|
|  READY     | <b>Flashing.</b> Indicates an error that you can recover by yourself, such as the loose front cover. For details, see <a href="#">Chapter 4 Troubleshooting, section 4.3 Error Messages on page 4-6</a> .<br><br><b>On.</b> Indicates that the printer is ready and on-line. The printer prints the data it receives.<br><br><b>Off.</b> Indicates that the printer is off-line. Data can be received but will not be printed until the printer is on-line by pressing the <b>GO</b> key. Also, indicates when printing is automatically stopped due to the occurrence of an error. For details see <a href="#">Chapter 4 Troubleshooting, section 4.3 Error Messages on page 4-6</a> . |
|  DATA      | <b>Flashing.</b> Indicates that a data is being received from the computer.<br><br><b>On.</b> Indicates either that data received is being processed before printing starts, or that data received is being written to a memory card or a hard disk.  |
|  ATTENTION | <b>Flashing.</b> Indicates that the printer requires maintenance or is warming up.<br><br><b>On.</b> Indicates the occurrence of a problem or an error. For details, see <a href="#">Chapter 4 Troubleshooting, section 4.3 Error Messages on page 4-6</a> .  |

Table 3-2

### 3.1.3 Keys

The operator panel keys are used to configure the printer operation. Note that certain keys have the secondary function.



**The printer has a parallel, serial, and an optional network interface. Configuration to the printer settings made with these keys affect only one of these interfaces that is currently active (indicated by the INTERFACE indicator on the message display). See [Interface Indicator \(INTERFACE\) on page 3-3](#).**

#### GO Key



The **GO** key switches the printer between on-line and off-line. Use this key to:

- Toggle the printer's on-line and off-line states. You can temporarily stop the print job by switching the printer off-line.
- Print and feed out one page when the printer displays **Waiting**.
- Recover from certain errors

#### CANCEL Key



This key is used to:

- Cancel a printing job
- Stop the alarm sound
- Reset numeric values or cancels a setting procedure while using menu system

To cancel a printing job:

- 1 While the printer displays **Processing**, press the **CANCEL** key.

**Print Cancel?** appears on the message display followed by the interface which the job to cancel is on. The interface is indicated by one of the following message:

Parallel  
USB  
Network  
Serial (option serial interface)  
Option (option network interface)

- 2 Press the **ENTER** key. **Cancelling** data appears on the message display and printing stops after the current page is printed.

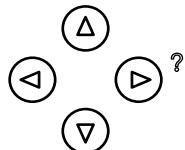
### MENU Key



The **MENU** key lets you enter the menu system to change the setup and printing environment of the printer.

Pressing this key during a menu selection will terminate the selection and return the printer to the normal operation.

### Arrow Keys



The four arrow keys are used in the menu system to access a desired item or enter numeric values.

The arrow key with the question mark (?) may be pressed when the paper jam message has appeared on the message display. Then a help message will appear to facilitate jam clearing in the location.

### ENTER Key



This key is used to:

- Finalize settings of numeric values and other selections.
- Set the paper source when Use alternative? is shown in the message display.



**Note**

If you hold down the **ENTER** key and press the **MENU** key when **Ready** is shown on this printer, the **AdministrationID** menu will be displayed. This menu is the setting menu for administration under the Account Management System and is normally not used. Press the **MENU** key to return to the **Ready** display.

## 3.2 Using the Menu Selection System

### 3.2.1 Menu Selection System

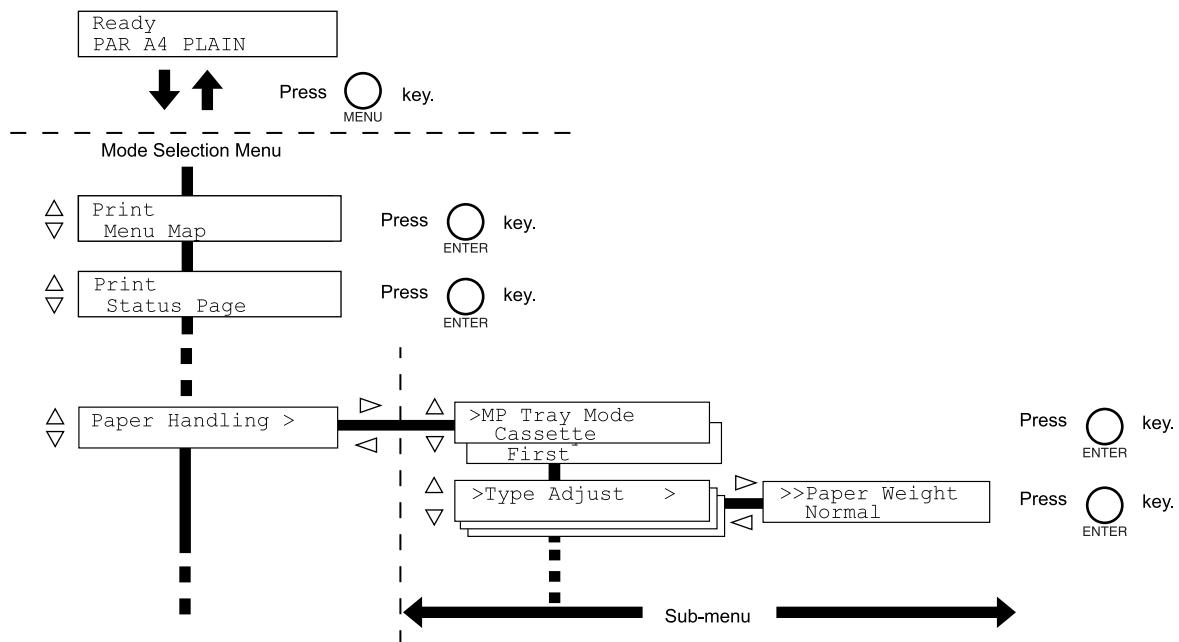
This section explains how to use the menu selection system. The **MENU** key on the operator panel allows you to use the menu to set or change the printer environment such as the number of copies to print, emulation, etc., to your specific needs. Settings can be made when Ready is indicated on the printer message display.

The printer obeys the most recently received printer settings sent from the application software, or from the printer driver, which take priority over operator panel settings.

#### Entering the Mode Selection Menu

Press the **MENU** key when Ready is indicated on the printer message display.

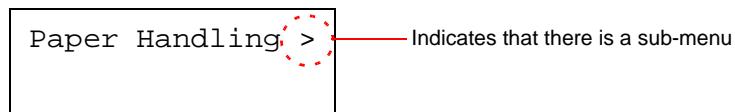
The mode selection menu is displayed.



## Selecting a Menu

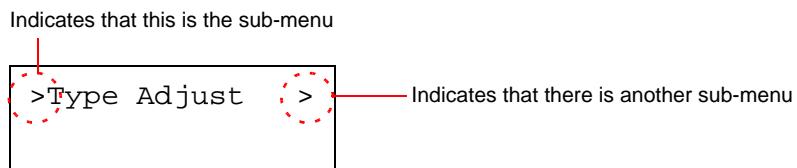
The mode selection menu is hierarchical. Press the  $\triangle$  or  $\nabla$  key to display the desired menu.

- If the selected menu has a sub-menu,  $>$  is displayed after the menu.



Press the  $\triangleright$  key to move to the sub-menu or  $\triangleleft$  key to go back.

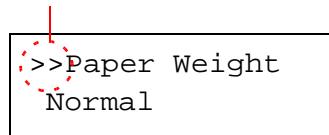
- $>$  is displayed before the sub-menu.



Press the  $\triangleright$  key to move to another sub-menu or  $\triangleleft$  key to go back.

- $>>$  is displayed before the second sub-menu.

Indicates that this is the second sub-menu



## Setting a Menu

Select the desired menu and press the **ENTER** key to set or change the configuration.

Press the  $\triangle$  or  $\nabla$  key to display the desired item and the **ENTER** key to finalize the value or selections set.

## Cancelling Menu Selection

If you press the **MENU** key when selecting a menu, the message display returns to Ready.



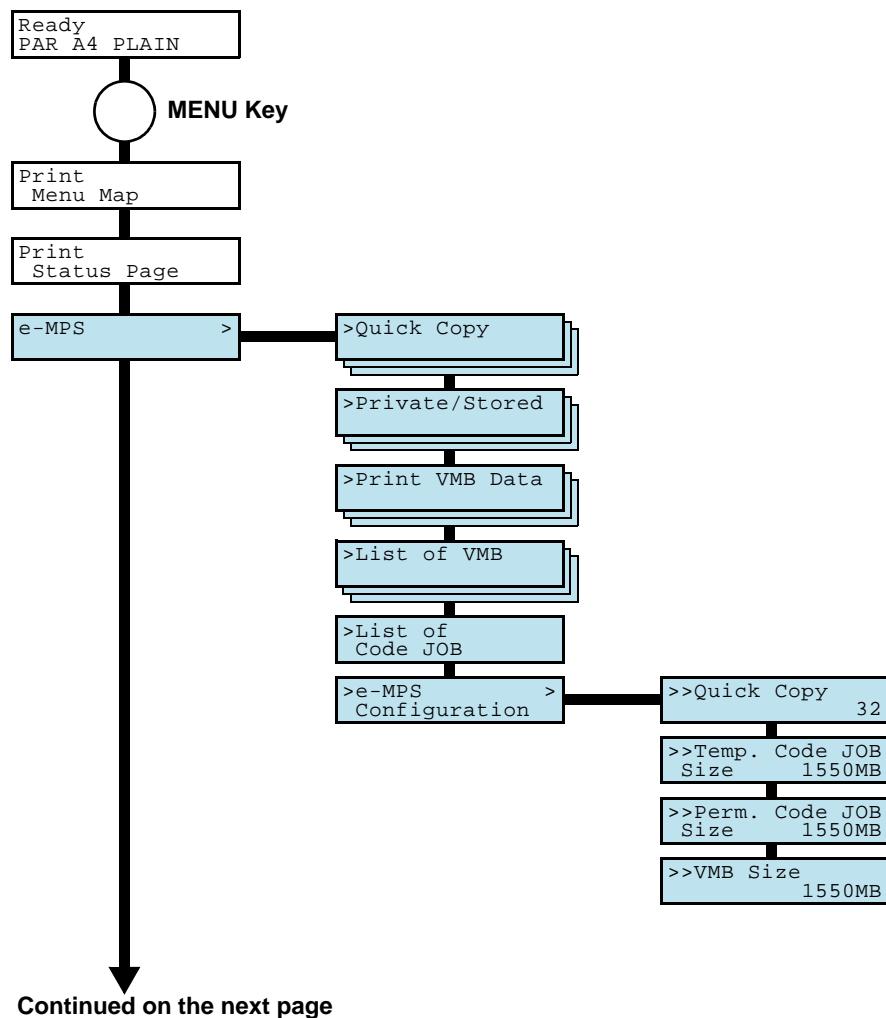
Note

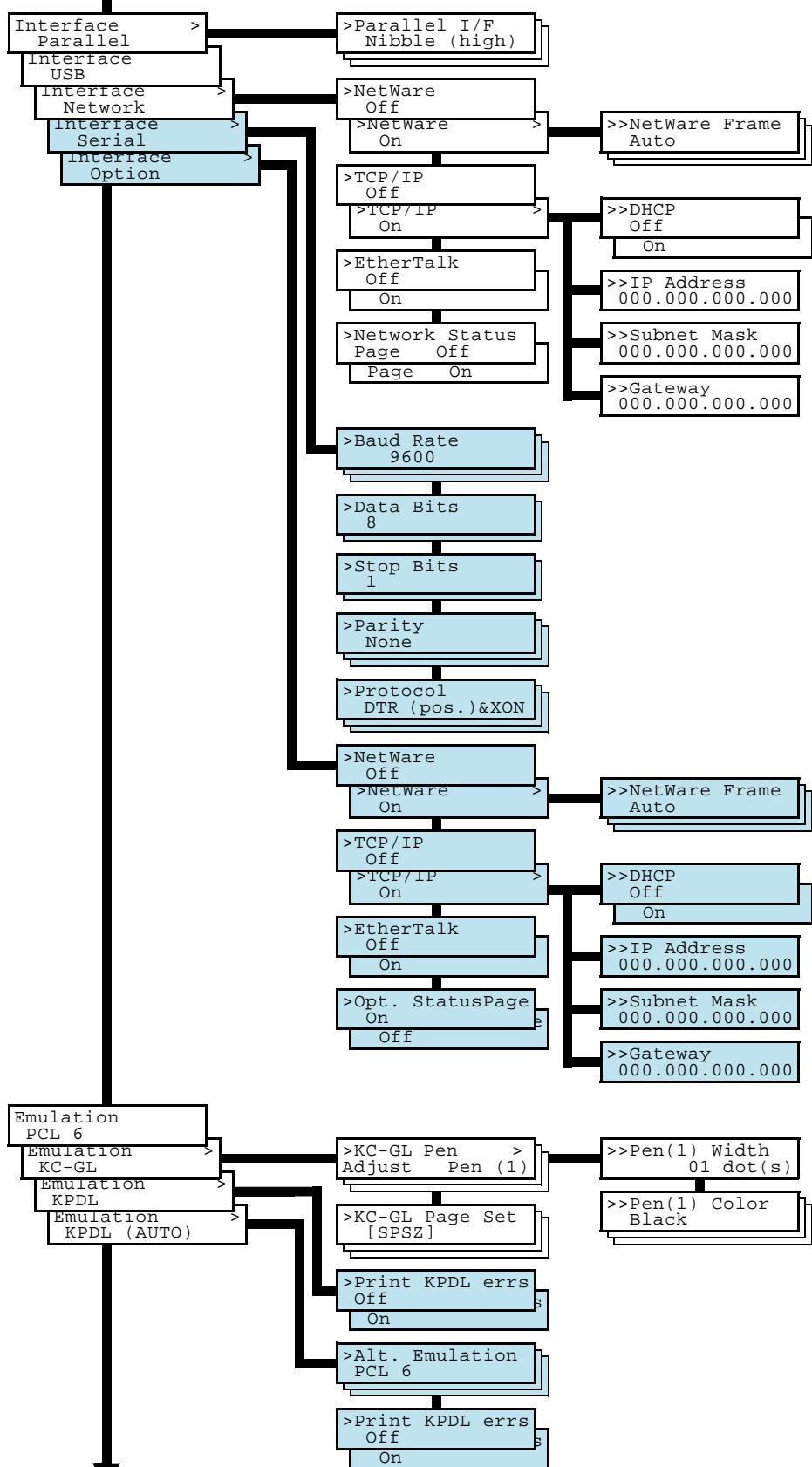
**Settings that are received from application software and the printer driver will take priority over settings made in the operator panel.**

### 3.2.2 Menu System Road Map

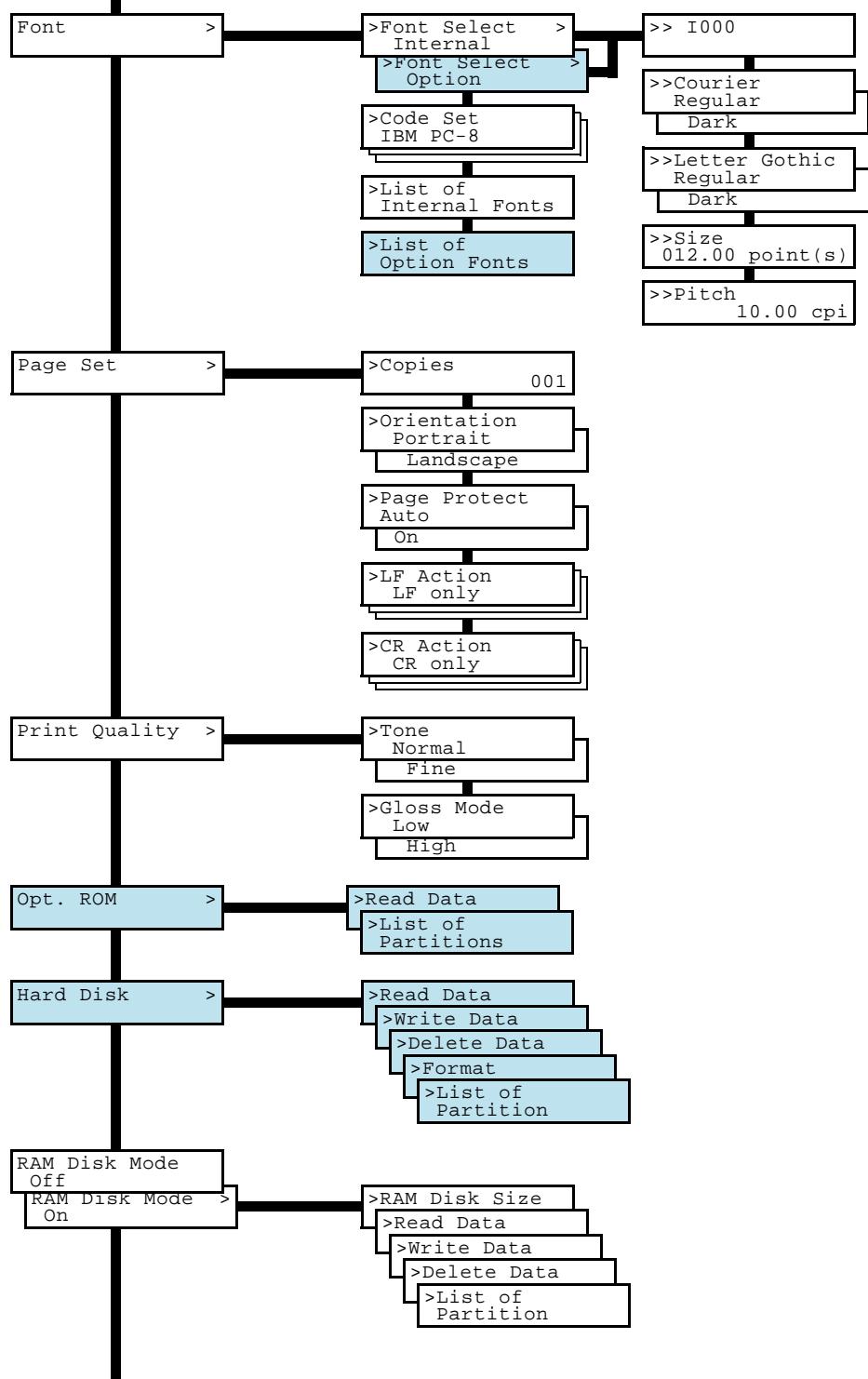
The following is the hierarchy diagram of the menu selection system of the printer.

For details about menu selection operations, see [page 3-8](#).



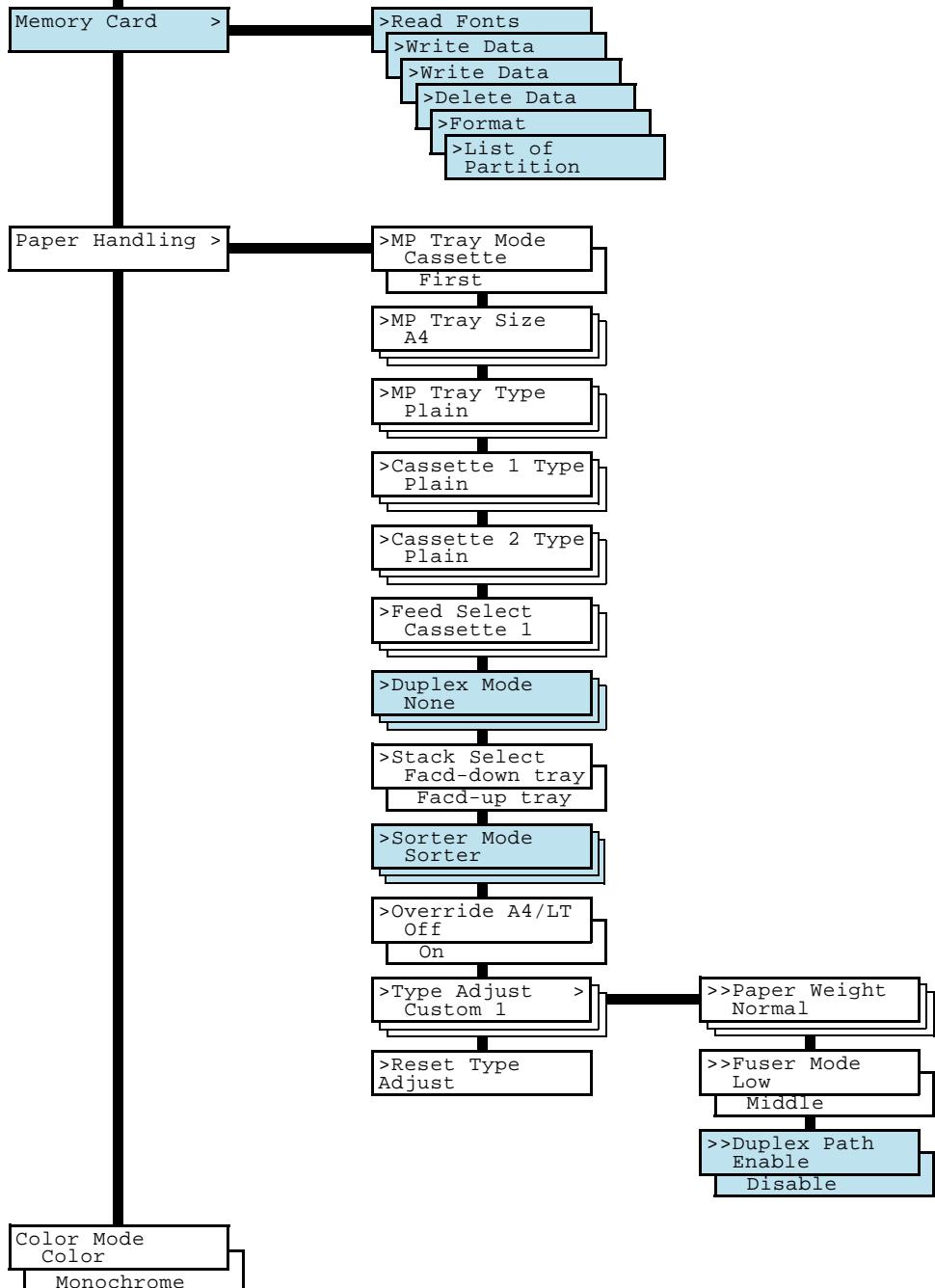
**Continued****Continued on the next page**

**Continued**



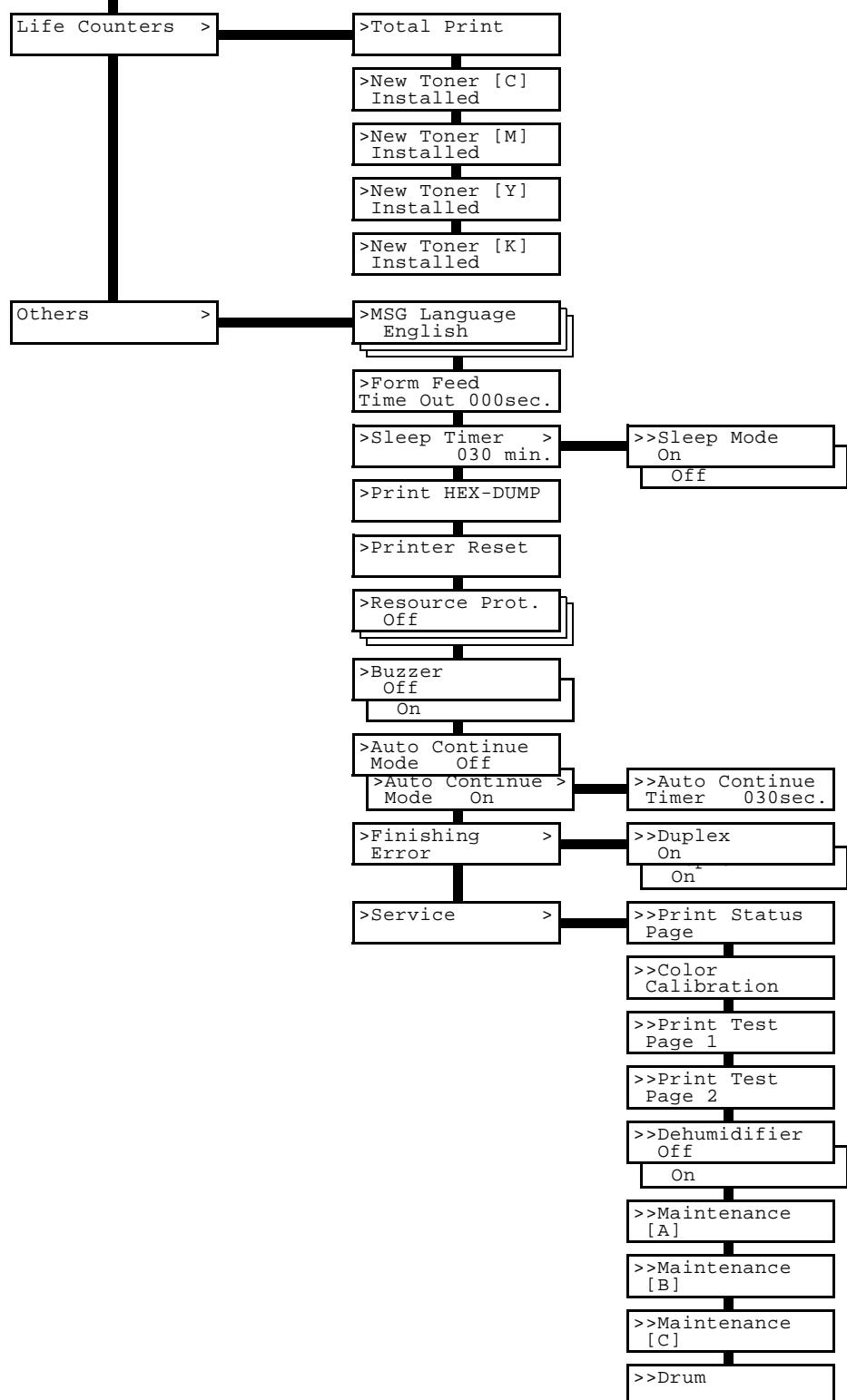
Continued on the next page

Continued



Continued on the next page

**Continued**



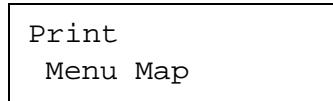
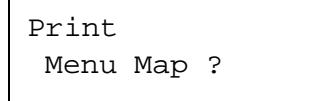
## 3.3 Menu Map and Status Pages

This section explains the procedure for printing the printer's internal information using the menu selection system. The menu map is useful as a reference to guide yourself through the menu selection system.

The status page is a list of parameters and settings for most basic printer configurations. You may be required to produce a status page when requesting service to the printer.

### 3.3.1 Printing a Menu Map

The printer prints a full list of menu selection system — Menu Map. Note that menus shown in the list may vary depending on which optional units installed in the printer.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Print Menu Map appears.  
  
Print  
Menu Map
- 3 Press the **ENTER** key. A question mark (?) appears.  
  
Print  
Menu Map ?
- 4 Press the **ENTER** key. The message Processing appears and the printer prints a Menu Map.

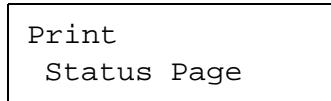


**Figure 3-3**

### 3.3.2 Printing a Status Page

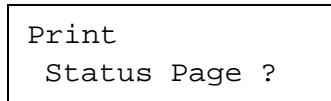
You can check the printer's current status, including available memory space and option settings by printing a status page.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Print Status Page appears.



Print  
Status Page

- 3 Press the **ENTER** key. A question mark (?) appears.



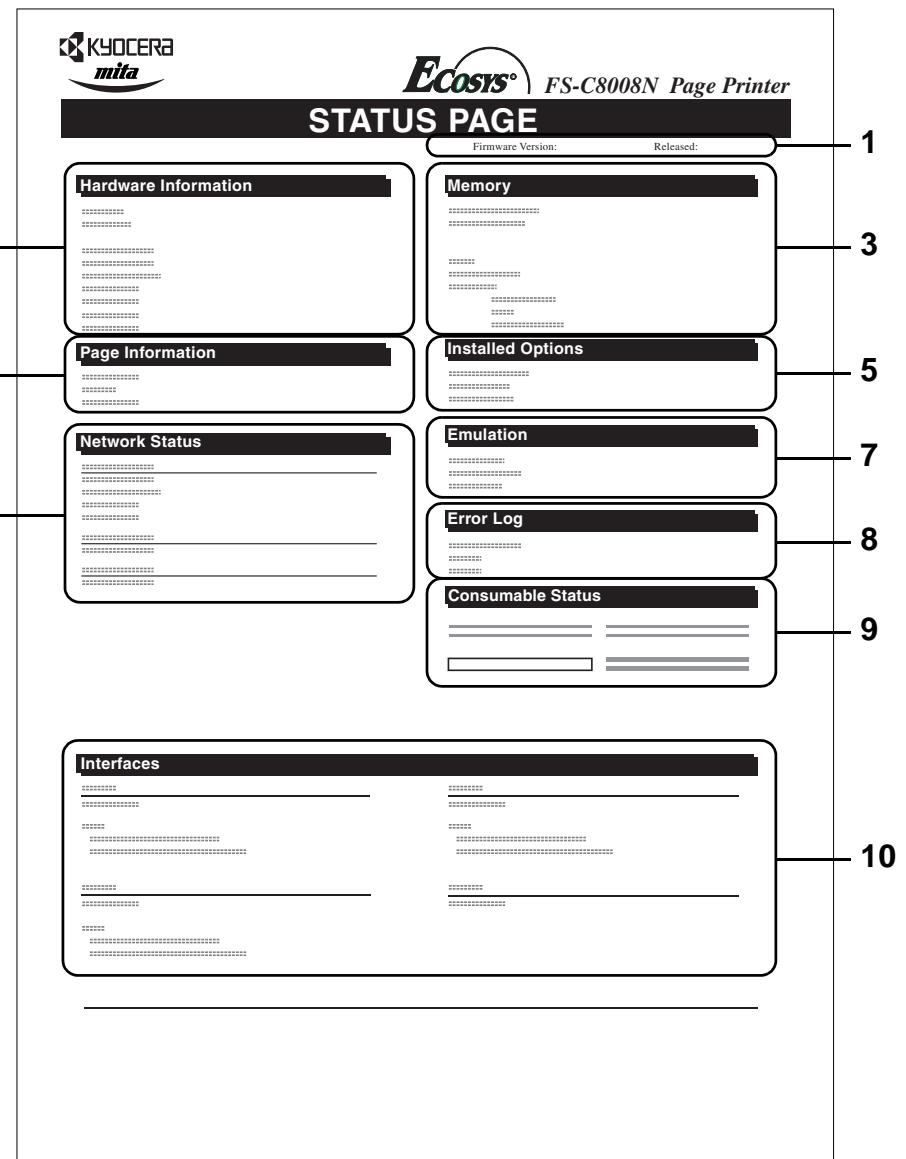
Print  
Status Page ?

- 4 Press the **ENTER** key again. The message Processing appears and the printer prints a status page.

For a sample status page and its full description, see [Understanding the Status Page on page 3-18](#).

### Understanding the Status Page

The numbers in the following diagram refer to the items explained below the diagram. The items and values on the status page may vary depending on the printer's firmware version.



**Figure 3-4**

#### 1 Software Version

This item shows the version and release date of the printer firmware.

#### 2 Hardware Information

This item shows various printer settings for hardware-related items:

- MP tray paper size and type
- Paper cassette size and type
- Draft mode
- Buzzer control
- Host buffer size
- Sleep time timeout time
- Formfeed timeout time

**3 Memory**

This item shows:

- Standard memory in the printer (128 MB)
- Option memory slot status (Slots 1 and 2) in megabytes
- Total memory in the printer
- Current status of the RAM disk

**4 Page Information**

This item shows the page related items:

- Tone mode, Normal or Fine
- Number of copies, from 1 to 999
- Total page count

**5 Installed Options**

This item shows the options installed in the printer:

- Hard disk
- Option ROM
- Memory card

**6 Network Status**

This item shows the IP address, subnet mask address, and default gateway address for the network interface card in the printer.

**7 Emulation**

This item shows all available emulations of the printer. The PCL 6 emulation is set as default when the printer is shipped from the factory. The emulations are:

- PCL 6
- KPDL3
- KC-GL

**8 Error Log**

This item shows the last three instances of the following types of errors, listing them in the order of occurrence:

- KPDL (PostScript) errors
- Memory overflow
- Print overrun
- File-not-found

The most recent error is displayed on the topmost line of Error Log. Error information is cleared when the printer is powered off.

The error log information is intended for service purpose.

**9 Consumable Status**

This item shows the approximate level of remaining toner. When the value is 100, the toner container is full. The closer to 0, the smaller the amount of remaining toner.

**10 Interface Information**

This information shows the emulation and the default font for all interfaces installed in the printer.

## 3.4 e-MPS

e-MPS is an abbreviation for ‘enhanced-Multiple Printing System’ which implements the following functions that are available from the printer driver:

- Job Retention
- Job Storage

In either job mode, when printing a document, the print data is transferred from the computer to the printer then stored on the printer’s hard disk. Since copies of the document are printed using the stored data, printing is performed faster with less computer spooling time and less network traffic.



Note

- **To use the e-MPS system, the standard hard disk must be installed in the printer.**  
For details, see [Appendix A Options](#).
- **The RAM disk may also be used in the Proof-and-Hold and Private Print modes.**  
See [Using the RAM Disk on page 3-67](#) for details on RAM disk setup.

### Job Retention

Job Retention has four modes as summarized below. These modes are selected when you choose on the printer driver through the application software:

|  | Quick Copy                       | Proof-and-Hold  | Private Print  | Stored Job  |
|--|----------------------------------|---|--|---|
| Primary function                                       | To later print additional copies | To proof the first copy before printing multiple copies | To hold the document in printer to prevent unauthorized access                                   | To electronically store documents such as fax cover pages |
| Start storing by                                       | Printer driver                   | Printer driver  | Printer driver   | Printer driver  |
| On terminating print setting from application software | Prints simultaneously            | Prints one copy simultaneously                          | Does not print   | Does not print  |
| Retrieved by   | Operator panel                   | Operator panel  | Operator panel   | Operator panel  |
| Default number of copies printed at retrieval          | Same as storing (can be changed) | One less (can be changed)                               | Same as storing (can be changed)   | One   |
| Maximum number of jobs stored <sup>†</sup>             | 32, expandable to 50             | 32, expandable to 50                                    | Depends on the hard disk capacity (Private jobs are deleted automatically once it is retrieved.) | Depends on the hard disk capacity                         |
| PIN security   | No                               | No  | Yes  | Yes (if necessary)  |
| Data after printing                                    | Stored                           | Stored  | Deleted  | Stored  |
| Data at power off                                      | Deleted                          | Deleted   | Deleted  | Stored  |
| Hard disk required                                     | Yes                              | No  | No   | Yes   |

**Table 3-3**

<sup>†</sup> Jobs in excess will cause the earlier ones to be deleted.

### Job Storage

Job storage stores print jobs either temporarily or permanently, or in virtual mailboxes, as you click an appropriate radio button on the printer driver when printing from a computer.

### Virtual Mailbox

Virtual mailbox is part of Job Storage, which stores print jobs on the hard disk without printing. It enables you to retrieve jobs later from the operator panel or the **KM-NET Printer Disk Manager utility** in the CD-ROM.

Each mailbox may be used by an individual who desires to share the printer in this mode. By default, each mailbox is numbered from 'Tray 001,' 'Tray 002,' ... etc. To 'post' a job in one of these mailboxes, you assign a numbered or named mailbox on the printer driver when printing.

To retrieve the stored job for printing, see *Retrieving Jobs from Virtual Mailbox (VMB) on page 3-28*.



**The virtual mailbox can be used in PCL 6 emulation only.**

#### 3.4.1 Using Quick Copy

This mode enables you to print the requested number of copies of a job, simultaneously storing the job on the hard disk. When additional copies are required, you can reprint the required number of copies from the printer operator panel. To print a job as a quick copy job, see *KX Printer Drivers Operation Guide*.

The default number of print jobs that can be stored on the hard disk is 32. This value can be increased to up to 50 from the e-MPS Configuration menu. For details, see *Changing the Maximum Number of Quick Copy/Proof-and-Hold Jobs on page 3-30*. When the number of jobs reaches the limit, the oldest job will be overwritten by the new one.

When the printer is turned off, all stored jobs will be deleted.

### Printing Additional Copies using Quick Copy

To print additional copies of a job stored in the printer:

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until e-MPS > appears.
 

e-MPS >
- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >Quick Copy appears followed by the user name (Harold, in this example). The user name is assigned at printing using the printer driver.
 

>Quick Copy  
Harold
- 5 Press the **ENTER** key. A blinking question mark (?) appears before the user name.
 

>Quick Copy  
?Harold
- 6 Press the  $\Delta$  or  $\nabla$  key to display the desired user name, Arlen, in this example.
 

>Quick Copy  
?Arlen
- 7 Press the **ENTER** key. The job name entered in the printer driver (Report, in this example) appear with a blinking question mark (?) before the letters.
 

>Arlen  
?Report
- 8 Press the  $\Delta$  or  $\nabla$  key to scroll to the desired job title.
- 9 Press the **ENTER** key. The number of copies to be printed can be set. To increase the copy count, press the  $\Delta$  key; to decrease the copy count, press the  $\nabla$  key.
 

>Report  
Copies 001
- 10 Press the **ENTER** key to finalize the copy count. The printer prints the specified number of copies for the job.

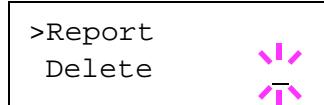
### Deleting a Quick Copy Job

All quick copy jobs are automatically deleted when the printer is turned off. If you desire to explicitly delete a stored quick copy job, proceed as follows:

- 1 Follow steps 1 through 8 in the above section to let the title of the job to be deleted displayed.
- 2 When the title of the job to be deleted is displayed, e.g. Report, below, press the **ENTER** key. The cursor below the copy count starts to blink.



- 3 Press the  $\nabla$  key repeatedly until **Delete** appears below the title.



- 4 Press the **ENTER** key. The stored quick copy job is deleted.

### 3.4.2 Using Proof-and-Hold

When you print multiple copies, this mode first prints one copy so that you can proof it before continuing to print the remaining copies. Since you can proof the printouts before printing the remaining copies, wastage of paper can be reduced.

The printer prints one copy and, at the same time, saves the print job on the hard disk/RAM disk. You can also change the number of copies when resuming printing from the operator panel.

When the printer is turned off, all stored jobs will be deleted.

#### Printing Remaining Copies of a Proof and Hold Job

Printing a Proof-and-Hold job on the operator panel is similar to printing a quick copy job. See [Printing Additional Copies using Quick Copy on page Chapter 3-22](#).

### 3.4.3 Printing a Private Print/Job Retention

In private printing, you can specify that a job is not printed until you release the job from the operator panel. At sending the job from the application software, you can specify a 4-digit access code in the printer driver. The job is released for printing by entering the access code on the operator panel. Thus, this function ensures confidentiality of the print job.

In the job retention mode, access codes are not mandatory, but can be set on the printer driver if printing with the PIN security is required. Then, the access code must be entered on the operator panel to print a stored job. Print data will be stored in the hard disk/RAM disk after printing. See *KX Printer Drivers Operation Guide* for the driver settings.

#### Releasing a Private/Stored Job

1 Press the **MENU** key.

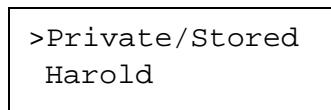
2 Press the  $\Delta$  or  $\nabla$  key repeatedly until e-MPS > appears.



e-MPS >

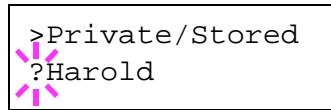
3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >Private/Stored appears. The name entered in the printer driver (Harold, in this example) also appears.



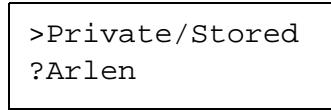
>Private/Stored  
Harold

5 Press the **ENTER** key. A blinking question mark (?) appears before the user name.



>Private/Stored  
?Harold

6 Press the  $\Delta$  or  $\nabla$  key to display the desired user name (Arlen, in this example).



>Private/Stored  
?Arlen

7 Press the **ENTER** key. The user name and the job name (Agenda, in this example) entered in the printer driver appear with a blinking question mark (?).



>Arlen  
?Agenda

8 Press the  $\Delta$  or  $\nabla$  key to display the desired job title.

9 Press the **ENTER** key. The ID input line appears. Enter the four-digit access code entered in the printer driver and press the **ENTER** key.

|         |      |
|---------|------|
| >Agenda |      |
| ID      | 0000 |

To enter the ID, press the  $\triangleleft$  or  $\triangleright$  key to move the cursor to the number to be changed and then enter the correct number by pressing the  $\triangle$  or  $\triangledown$  key.

10 You can set the number of copies to be printed. To increase the copy count, press the  $\triangle$  key; to decrease the copy count, press the  $\triangledown$  key.

|         |     |
|---------|-----|
| >Agenda |     |
| Copies  | 001 |

11 Press the **ENTER** key to finalize the copy count. The printer prints the specified number of copies for the job.

#### Deleting a Private/Stored Job

You can individually delete stored jobs by performing the following procedure. Jobs saved using Private Print will be automatically deleted if you turn the power off after printing, but jobs saved using Stored Job will not be deleted automatically.

1 Follow steps 1 through 8 in the above section.

2 When the title of the job to be printed is displayed (Agenda, in this example), press the **ENTER** key. Enter the four-digit access code entered in the printer driver and press the **ENTER** key.

|         |     |
|---------|-----|
| >Agenda |     |
| Copies  | 001 |

3 Press the  $\triangledown$  key repeatedly until **Delete** appears for the number of copies.

|         |  |
|---------|--|
| >Agenda |  |
| Delete  |  |

4 Press the **ENTER** key. The private job is deleted from the hard disk.

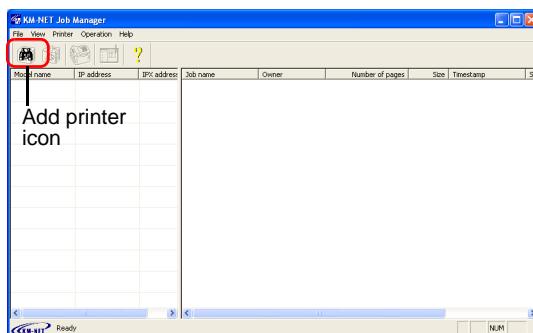
### Printing a Code Job

Install the KM-NET Job Manager software from the CD-ROM supplied with the printer. To do this, from the CD-ROM **Main Menu**, select **Printer Utilities > Install KM-NET Job Manager**.

- 1 Browse through Windows **Start > Programs > KYOCERA MITA > KM-Net > Job Manager**.
- 2 Enter the password for the software. **Job Manager** will start.
- 3 Click the **Add printer** icon (below). Select the **Local** or **Network** port.

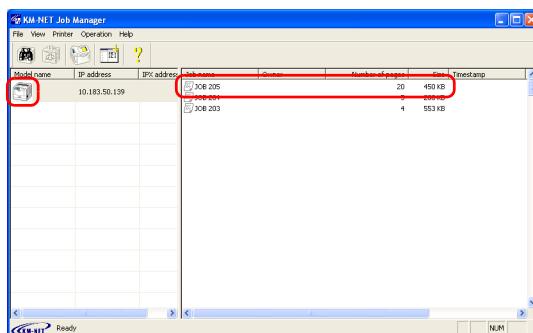


If you use the local parallel port to connect to the printer, make sure that the printer driver is set to print to a local port. To check this out, click the Details tab of the printer Properties, and note the Print to the following port setting.



- 4 Follow the wizard until the **Select printer** dialog box is reached. When the printer is found in the **Printer List**, click (highlight) it, then **Finish**.
- 5 Double click **Model Name** on the list. The jobs currently stored in the printer are shown. To print the job, right click **Job name** and then click **Print** on the drop down list that appears.

It is possible to select more than one job at a time by left clicking a job one by one while pressing the **Ctrl** key on the computer keyboard.



The job remains intact even after printing. To permanently delete the job in the hard disk, right click the job name on **Job Manager**, then click **Delete** on the drop down list that appears.

### Printing a List of Code Jobs

If you select Permanent Job Storage on the printer driver, you can have a List of Code Job printed using the operator panel.

1 Press the  **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until e-MPS > appears.

```
e-MPS >
```

3 Press the  $\triangleright$  key.

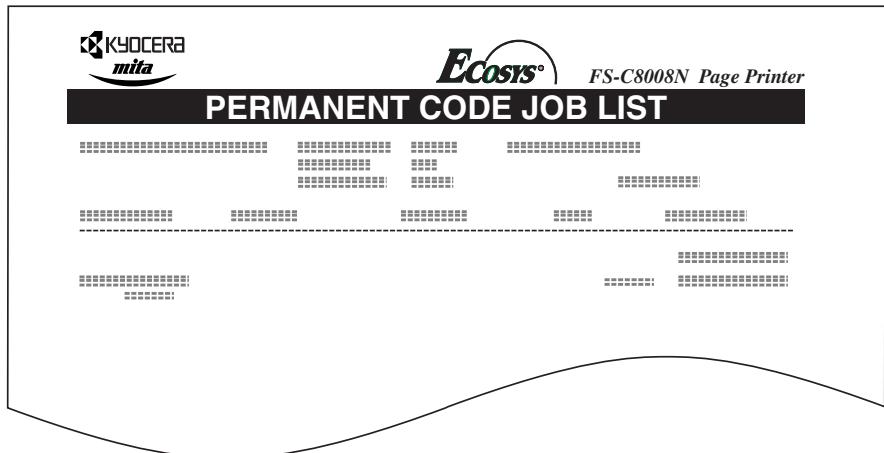
4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >List of Code JOB appears.

```
>List of
Code JOB
```

5 Press the  **ENTER** key. A question mark (?) appears.

```
>List of
Code JOB ?
```

6 Press the  **ENTER** key again. The printer prints a Code Job list as shown in [Figure 3-5](#) below.



[Figure 3-5](#)

### 3.4.4 Retrieving Jobs from Virtual Mailbox (VMB)

To retrieve the jobs posted in the virtual mailbox, proceed as follows.

- 1 Press the **MENU** key.
- 2 Press the  $\triangle$  or  $\nabla$  key repeatedly until e-MPS > appears.

e-MPS >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\triangle$  or  $\nabla$  key repeatedly until >Print VMB Data appears. The virtual mailbox number will also appear.

>Print VMB Data  
Tray001:

If you have named the virtual mailbox with an alias on the printer driver, the alias (Richard, in this example) will follow the number:

>Print VMB Data  
Tray001:Richard

- 5 Press the **ENTER** key. A blinking question mark (?) appears.
- 6 Press the **ENTER** key. The document in the mailbox is printed and automatically deleted from the mailbox.

#### Printing a List of VMB

A Virtual Mailbox list includes the jobs currently stored in the mailboxes.

- 1 Press the **MENU** key.
- 2 Press the  $\triangle$  or  $\nabla$  key repeatedly until e-MPS > appears.
- 3 Press the  $\triangleright$  key.

e-MPS >

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >List of VMB appears.

>List of VMB

5 Press the **ENTER** key. A question mark (?) appears.

>List of VMB ?

6 Press the **ENTER** key again. The printer prints a list of jobs currently posted in the virtual mailboxes as shown in *Figure 3-6* below.

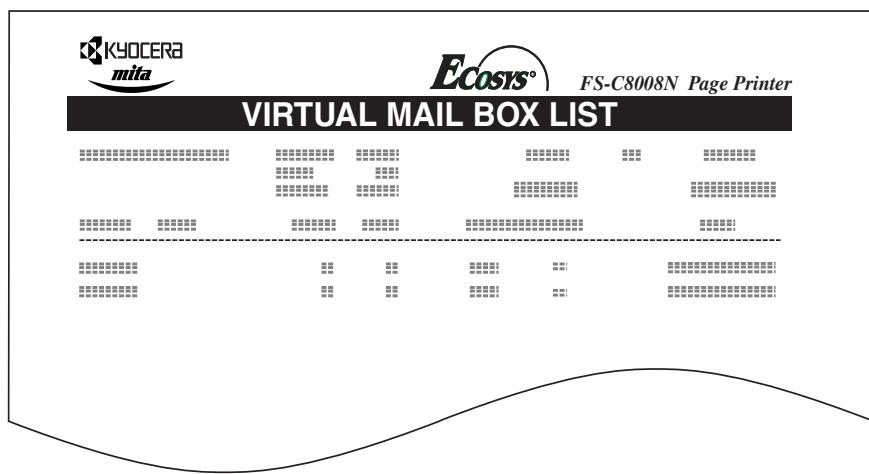


Figure 3-6

### 3.4.5 Changing e-MPS Configuration

You can change the following parameters for e-MPS operation:

- Maximum number of Quick Copy/Proof-and-Hold jobs
- Maximum space assigned to temporary code jobs
- Maximum space assigned to permanent code jobs
- Maximum space assigned to virtual mailboxes



**The total amount of storage areas specified must not exceed the total size of the hard disk. Otherwise, you may only be able to accommodate print jobs of a smaller amount of print jobs than specified.**

#### Changing the Maximum Number of Quick Copy/Proof-and-Hold Jobs

This changes maximum number of Quick Copy/Proof-and-Hold jobs from 0 to 50. The default is 32.

1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until e-MPS > appears.

|       |   |
|-------|---|
| e-MPS | > |
|-------|---|

3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >e-MPS Configuration > appears.

|               |   |
|---------------|---|
| >e-MPS        | > |
| Configuration |   |

5 Press the  $\triangleright$  key.

6 Press the  $\Delta$  or  $\nabla$  key repeatedly until >>Quick Copy appears.

|              |    |
|--------------|----|
| >>Quick Copy | 32 |
|--------------|----|

7 Press the **ENTER** key. A blinking cursor () appears.

|              |    |
|--------------|----|
| >>Quick Copy | 32 |
|--------------|----|

8 Press the  $\Delta$  or  $\nabla$  key to increase or decrease the value at the blinking cursor. The value can be set between 0 and 50. Use the  $\triangleright$  and  $\triangleleft$  keys to move the cursor right and left.

9 When the desired maximum number of jobs is set, press the **ENTER** key.

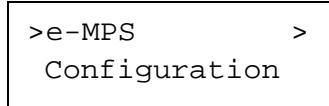
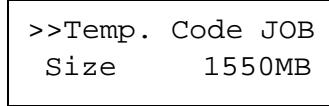
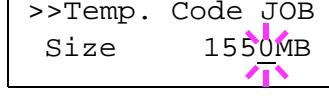
---

10 Press the  **MENU** key. The display returns to Ready.

#### Maximum Space Assigned to Temporary Code Jobs

This changes the hard disk space that holds temporary code jobs. You can change the maximum space from 0 to 9999 (megabytes). The actual maximum size depends on the size of free hard disk space, however. The default size is 1/6 of the total hard disk space, rounded off in unit of 50 MB. For example, if the total hard disk space is 10 GB, the default size is 1550 MB.

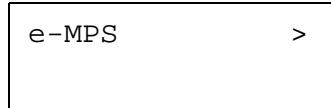
- 1 Press the  **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **e-MPS >** appears.  

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>e-MPS Configuration >** appears.  

- 5 Press the  $\triangleright$  key.
- 6 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>>Temp. Code JOB Size** appears.  

- 7 To change the maximum disk space, press the **ENTER** key. A blinking cursor (\_) appears.  

- 8 Press the  $\Delta$  or  $\nabla$  key to increase or decrease, respectively, the value at the blinking cursor. Use the  $\triangleright$  and  $\triangleleft$  keys to move the cursor right and left.
- 9 When the desired size is displayed, press the **ENTER** key.
- 10 Press the  **MENU** key. The display returns to Ready.

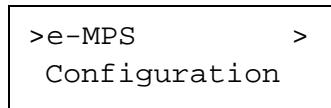
### Maximum Space Assigned to Permanent Code Jobs

This changes the hard disk space that holds permanent code jobs. You can change the maximum space from 0 to 9999 (megabytes). The actual maximum size depends on the size of free hard disk space, however. The default size is 1/6 of the total hard disk space, rounded off in unit of 50 MB. For example, if the total hard disk space is 10 GB, the default size is 1550 MB.

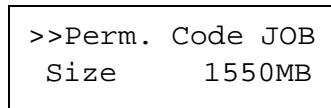
- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key and select e-MPS >.



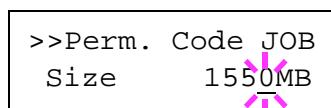
- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key and select >e-MPS Configuration >.



- 5 Press the  $\triangleright$  key.
- 6 Press the  $\Delta$  or  $\nabla$  key and select >>Perm. Code JOB Size.



- 7 Press the **ENTER** key, the message display shows a blinking cursor (\_).



- 8 Press the  $\Delta$  or  $\nabla$  key to increase or decrease, respectively, the value at the blinking cursor. Use the  $\triangleright$  and  $\triangleleft$  keys to move the cursor right and left.
- 9 When the desired size is displayed, press the **ENTER** key.
- 10 Press the **MENU** key and the display returns to Ready.

### Maximum Space Assigned to Virtual Mailboxes (VMB)

This changes the hard disk space for virtual mailboxes. You can change the maximum space from 0 to 9999 (megabytes). The actual maximum size depends on the size of free hard disk space, however. The default size is 1/6 of the total hard disk space, rounded off in unit of 50 MB. For example, if the total hard disk space is 10 GB, the default size is 1550 MB.

- 1 Press the **MENU** key
- 2 Press the  $\Delta$  or  $\nabla$  key and select **e-MPS >**.

e-MPS >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key and select **>e-MPS Configuration >**.

>e-MPS >  
 Configuration

- 5 Press the  $\triangleright$  key.
- 6 Press the  $\Delta$  or  $\nabla$  key and select **>>VMB Size**.

>>VMB Size  
 1550MB

- 7 To change the maximum size, press the **ENTER** key. The message display shows a blinking cursor (\_).

>>VMB Size  
 1550\_

- 8 Press the  $\Delta$  or  $\nabla$  key to increase or decrease, respectively, the value at the blinking cursor. Use the  $\triangleright$  and  $\triangleleft$  keys to move the cursor right and left.
- 9 When the desired size is displayed, press the **ENTER** key.
- 10 Press the **MENU** key to exit the menu selection.

## 3.5 Changing the Interface Parameters

The printer is equipped with both a parallel and USB interfaces. Option serial interface board kit and network interface card can also be installed. Various printing environment parameters such as the default emulation can be changed independently on different interfaces by using the printer's menu selection system. Select the interface to apply the changes in the procedure described below.



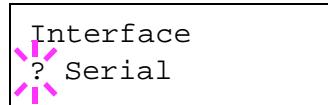
**This interface selection described below does not select which interface data will be received from. The printer automatically selects an interface data to be received.**

### 3.5.1 Changing Parallel Interface Mode

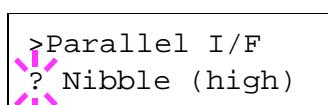
The parallel interface supports a bi-directional/high-speed mode according to IEEE standards. Normally, this interface is used under the default setting **Auto**. For details, see [Appendix B Computer Interface](#). After setting the interface, be sure to reset the printer or turn the power off at least once. The new setting will be enabled thereafter. You can select from the following:

- Auto (default)
- Nibble/high speed
- High speed
- Normal

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Interface >** appears.
- 3 If the interface is other than parallel, press the **ENTER** key. A blinking question mark (?) appears.



- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Parallel** appears.
- 5 Press the **ENTER** key again. The question mark disappears.
- 6 To change the parallel interface mode, press the  $\triangleright$  key. The current communication mode appears.
- 7 To change the communication mode, press the **ENTER** key. A blinking question mark (?) appears.



- 8 Press the  $\Delta$  or  $\nabla$  key to scroll through the following communication modes:
  - Nibble (high)
  - Auto
  - Normal
  - High Speed
- 9 When the desired communication mode is displayed, press the **ENTER** key.
- 10 Press the **MENU** key to exit the menu selection.

### 3.5.2 Changing Serial Interface Parameters

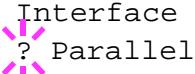


**This section applies to the printers having the option serial interface board kit (IB-11) installed.**

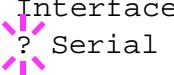
**Note**

You can confirm or change the serial interface parameters including baud rate, data bits, stop bits, parity, and protocol. These parameters must match those of the computer's serial interface.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Interface >** appears.
- 3 If the interface is other than serial, press the **ENTER** key. A blinking question mark (?) appears.
 



Interface  
? Parallel
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Serial** appears.
 

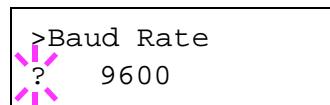


Interface  
? Serial
- 5 Press the **ENTER** key again.
- 6 Press the  $\triangleright$  key. One of the following serial parameters is indicated (Baud rate for example).

Pressing the  $\Delta$  or  $\nabla$  key toggles through the serial parameters as follows. To change the serial parameter, press the **ENTER** key. Use the  $\Delta$  or  $\nabla$  key to change the value or selection.

| Range                         |  |
|-------------------------------|--|
| >Baud Rate<br>9600            | 1200, 2400, 4800, 9600 (Default), 19200, 38400, 57600, 115200                    |
| >Data Bits<br>8               | 7 or 8 (Default)   |
| >Stop Bits<br>1               | 1 (Default) or 2   |
| >Parity<br>None               | None (Default), Odd, Even, or Ignore   |
| >Protocol<br>DTR (pos.) & XON | DTR (pos.) & Xon (Default), DTR (positive), DTR (negative), XON/XOFF, or ETX/ACK |

For example, to change baud rate from 9600 to 115200, display the baud rate menu following the above procedure. When the display shows baud rate, 9600 (bps), press the **ENTER** key. A blinking question mark (?) appears.



Press the  $\Delta$  or  $\nabla$  key to scroll through values. When 115200 is displayed, press the **ENTER** key. Press the **MODE** key to exit the menu selection.



**Note**

**Some computers may not be able to handle a baud rate of 115200 bps. If you set the baud rate to 115200 and encounter communication problems, select a lower baud rate.**

### 3.5.3 Changing Network Interface Parameters

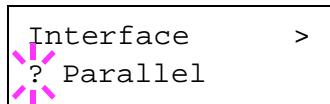
This printer supports TCP/IP, NetWare and EtherTalk protocols. In addition, you can install the optional network interface card in the printer's extension slot (OPT).

Using the operator panel, you can:

- Activate or deactivate TCP/IP, NetWare, and AppleTalk
- Activate or deactivate DHCP
- Enter IP address, subnet mask address, and default gateway address
- Determine whether to print a network status page when the printer is turned on

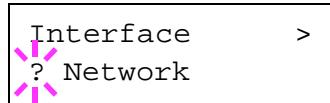
To confirm or change network card parameters, proceed as follows:

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Interface >** appears.
- 3 If the current interface is other than network, press the **ENTER** key. A blinking question mark (?) appears.



If the optional network interface card is installed in the printer, **Option** will be displayed. The setting procedure is basically the same even in this case.

- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Network** appears.



- 5 Press the **ENTER** key again.

6 Press the  $\triangleright$  key. One of the following menus is indicated. To change settings for the item, press the **ENTER** key. Use the  $\triangle$  or  $\nabla$  key to change the value or selection.

|   |   | Range   |
|---|---|---|
| >NetWare  | >   | Set this item to On when you connect to a network using NetWare. In submenu (>), frame mode can be selected from Auto, 802.3, Ethernet II, 802.2, and 802.3SNAP.  |
| On  |   |   |
|  |  |   |
| >TCP/IP   | >   | Set this item to On when you connect to a network using TCP/IP. Submenu (>) has items including DHCP, IP address, subnet mask address, and gateway address. To resolve IP address for the network card, see <a href="#">3.5.4 Resolving IP Address</a> below. |
| On  |   |   |
|  |  |   |
| >EtherTalk  |   | EtherTalk must be activated (On) for networking with Macintosh computers.   |
| Off   |   |   |
|  |  |   |
| >Network Status   |   | When the item is set to On, the printer prints out a network status page when it prints the printer status. See <a href="#">Printing a Network Interface Status Page on page 3-40</a> .   |
| Page  | Off   |   |

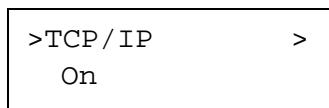
7 Activate the appropriate protocol that is required to connect the printer to the network. To activate a protocol, let the protocol displayed, press the **ENTER** key, press the  $\triangle$  or  $\nabla$  key to change from Off to On, and press the **ENTER** key.

8 Press the **MENU** key. The display returns to Ready. You can print a network status page to confirm that the IP address, subnet mask address, and the gateway address have been properly set. To print a network status page, see [Printing a Network Interface Status Page on page 3-40](#) which follows.

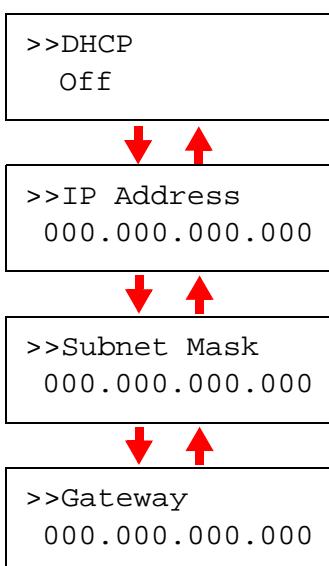
### 3.5.4 Resolving IP Address

To connect the printer to the network using TCP/IP protocol, you must set the IP address on the printer. The IP address must be unique to the printer and should be obtained from your network administrator.

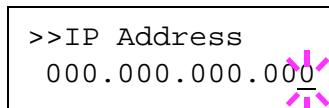
- 1 Activate TCP/IP protocol in the manner described above.



- 2 Enter the submenu by pressing the  $\triangleright$  key. Each time you press the  $\triangle$  or  $\nabla$  key, the selection changes as shown below.



- 3 When  $>>IP$  Address is displayed, press the **ENTER** key. A blinking cursor ( $\underline{\phantom{0}}$ ) appears at the last digit.



- 4 Press the  $\triangle$  or  $\nabla$  key to increase or decrease, respectively, the value at the blinking cursor. Use the  $\triangleright$  and  $\triangleleft$  keys to move the cursor right and left.
- 5 When the IP address is entered, press the **ENTER** key.
- 6 Press the  $\triangle$  or  $\nabla$  key to move to Subnet Mask. Perform the same procedure to complete entering the subnet mask address.
- 7 Then, press the  $\triangle$  or  $\nabla$  key to move to Gateway. Perform the same procedure to complete entering the subnet mask address.
- 8 Press the **MENU** key. The display returns to Ready. You can print a network status page to confirm that the IP address, subnet mask address, and the gateway address have been properly set. To print a network status page, see [Printing a Network Interface Status Page](#) which follows.

### Printing a Network Interface Status Page

You can have your printer print out a network status page when the printer prints the status page. The network status page shows the network addresses, and other information under various network protocols about the network interface card. The default setting is Off (print disable).



Note

**Printing out a network interface status page may not be possible with the optional network interface card. For details, see the manual for the network interface.**

A sample network status page is shown on *Figure 3-7 on page 3-41*.

**1** Press the **MENU** key.

**2** Press the **ENTER** key repeatedly until **Interface >** appears.

Interface >  
Parallel

**3** If the interface is other than network, press the **ENTER** key. A blinking question mark (?) appears.

Interface  
? Parallel

**4** Press the  $\Delta$  or  $\nabla$  key repeatedly until **Network** appears. Press the **ENTER** key.

Interface  
? Network

**5** Press the  $\triangleright$  key and then press the  $\Delta$  or  $\nabla$  key repeatedly until the display shows **>Network Status Page**.

>Network Status  
Page Off

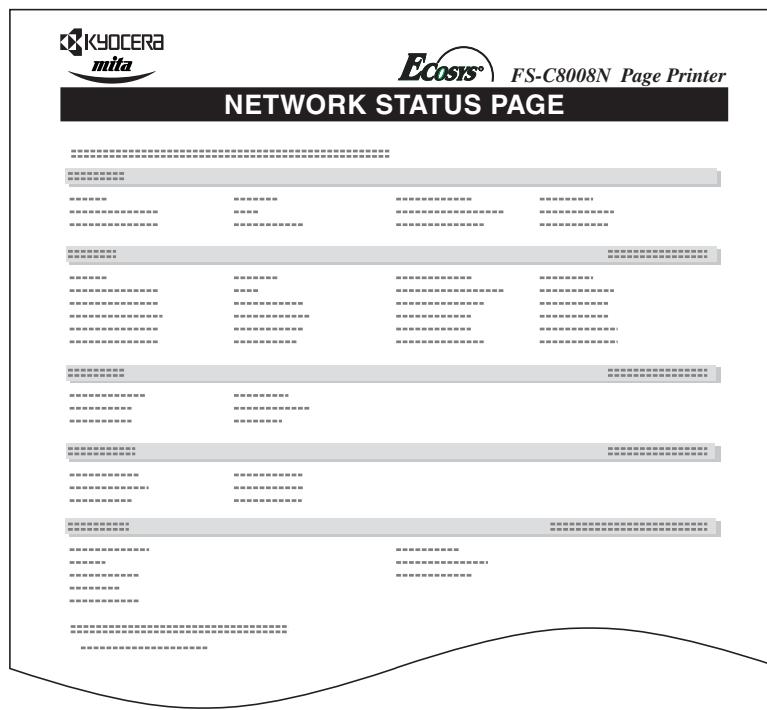
**6** The default setting is **Off**. If it is set to **On**, press the **ENTER** key. A blinking question mark (?) appears.

>Network Status  
Page ? Off

**7** Press the  $\Delta$  or  $\nabla$  key to select **On**.

>Network Status  
Page ? On

- 8 Press the **ENTER** key again.
- 9 Press the **MENU** key. The display returns to Ready. The printer prints a network status page as an example shown in *Figure 3-7* below.



**Figure 3-7**

## 3.6 Making Default Settings

Using the operator panel, you can set the default for the following items. Note default settings made using the operator panel may be overridden by the printer driver settings and application software.

### 3.6.1 Default Emulation

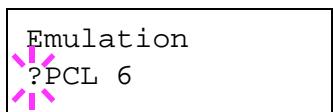
You can change the emulation mode and character code set for the current interface. The printer is capable of the following emulation modes:

- HP PCL 6 (HP Color LaserJet 8550)
- KC-GL (HPGL 7550A)
- KPDL3 (PostScript 3)

The printer can automatically switch between HP PCL 6 and KPDL3 depending on the print job that is received from the computer. To do this, select KPDL (AUTO) in the following procedure.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Emulation > appears on the message display. One of the emulation modes appears, indicating the emulation currently in use.

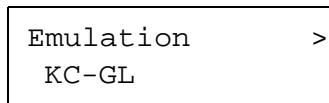
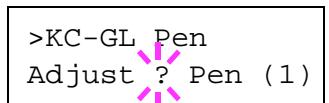
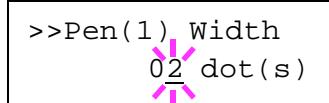
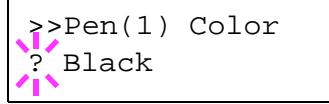
PCL 6 (default)  
KC-GL  
KPDL  
KPDL (AUTO)
- 3 To change the default emulation, press the **ENTER** key. A blinking question mark (?) appears.



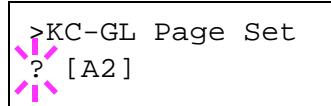
The image shows a rectangular operator panel display with a black border. Inside, the word 'Emulation' is centered in a small, dark font. Below it, a question mark character 'PCL 6' is also centered. The question mark is a standard black font, while 'PCL 6' is in a slightly smaller, dark font.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until the desired emulation mode is displayed.
- 5 Press the **ENTER** key.
- 6 Press the **MENU** key. The display returns to Ready.

### 3.6.2 KC-GL Pen Width and Color

The KC-GL emulation mode enables you to set the pen widths in dots, individual pen colors for pen numbers 1 to 8, and the KC-GL page size.

- 1 Press the **MENU** key.
- 2 Press the  $\triangle$  or  $\nabla$  key repeatedly until Emulation appears on the message display.
- 3 If the current emulation is other than KC-GL, press the **ENTER** key. A blinking question mark (?) appears.
- 4 Press the  $\triangle$  or  $\nabla$  key repeatedly until KC-GL appears. Press the **ENTER** key.  

- 5 Press the  $\triangleright$  key to move to the >KC-GL Pen Adjust> submenu. To change the pen width and/or pen color, press the **ENTER** key. A blinking question mark (?) appears.  

- 6 Press the  $\triangle$  or  $\nabla$  key repeatedly until the desired pen number of 1 to 8 appears. When the desired pen number is displayed, press the **ENTER** key.
- 7 To change the pen width, press the  $\triangleright$  key, then press the **ENTER** key. A blinking cursor appears at the width value.  

- 8 Press the  $\triangle$  or  $\nabla$  key repeatedly until the desired pen width in dots (00 to 99) appears. When the desired pen width is displayed, press the **ENTER** key.
- 9 To set the pen color, press the  $\triangle$  or  $\nabla$  key. To change the pen color, press the **ENTER** key. A blinking question mark (?) appears.  

- 10 Press the  $\triangle$  or  $\nabla$  key repeatedly until the desired pen color (Black, Red, Green, Yellow, Blue, Magenta, Cyan, White) appears. When the desired pen color is displayed, press the **ENTER** key.
- 11 To set the KC-GL page size, press the  $\triangle$  or  $\nabla$  key until >KC-GL Page Set is displayed.

12 To change the page size, press the **ENTER** key. A blinking question mark (?) appears.



13 Press the  $\Delta$  or  $\nabla$  key repeatedly until the desired page size (A2, A1, A0, B3, B2, B1, B0, and SPSZ) appears. The SPSZ command sets the paper edge limits to the dimensions of a standard paper size. See this command explained in the Programming Manual in the CD-ROM. Press the **ENTER** key to set the page set you just selected.

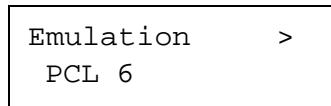
14 Press the **MENU** key. The display returns to Ready.

### 3.6.3 Alternative Emulation for KPDL Emulation

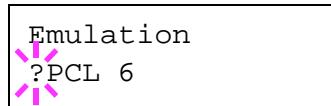
The auto KPDL [KPDL (AUTO)] emulation enables the printer to automatically change the emulation mode according to the print job received. The emulation mode the printer switches alternatively can be selected using the operator panel. The default alternative emulation is HP PCL 6.

1 Press the **MENU** key.

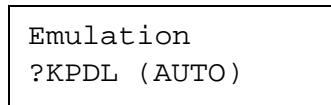
2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Emulation > appears.



3 Press the **ENTER** key. A blinking question mark (?) appears.

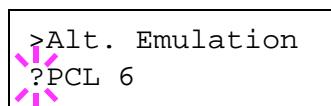


4 Press the  $\Delta$  or  $\nabla$  key repeatedly until KPDL (AUTO) appears. Press the **ENTER** key.



5 Press the  $\triangleright$  key. Press the  $\Delta$  or  $\nabla$  key until >Alt. Emulation is displayed. The alternative emulation currently selected also appears — PCL 6 or KC-GL.

6 To change the alternative emulation, press the **ENTER** key. A blinking question mark (?) appears.



- 7 Press the  $\Delta$  or  $\nabla$  key until the desired alternative emulation appears.
- 8 Press the **ENTER** key.
- 9 Press the **MENU** key. The display returns to Ready.

#### 3.6.4 Printing KPDL Errors

The printer can print error descriptions when printing error occurs during KPDL emulation. The default is Off — the printer does not print KPDL errors.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Emulation > appears.
 

Emulation >  
 PCL 6
- 3 Press the **ENTER** key. A blinking question mark (?) appears.
 

Emulation  
 ?PCL 6
- 4 Select KPDL or KPDL (AUTO) using the  $\Delta$  or  $\nabla$  key.
 

Emulation  
 ?KPDL
- 5 Press the **ENTER** key.
- 6 Press the  $\triangleright$  key. Press the  $\Delta$  or  $\nabla$  key until >Print KPDL Errs (errors) appears.
 

>Print KPDL Errs  
 Off
- 7 Press the **ENTER** key. A blinking question mark (?) appears.
- 8 Select On using the  $\Delta$  or  $\nabla$  key. Press the **ENTER** key.
 

>Print KPDL Errs  
 ? Off
- 9 Press the **MENU** key. The display returns to Ready.

### 3.6.5 Default Font

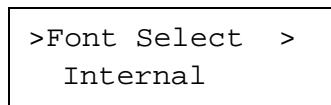
You can select the default font for the current interface. The default font can be one of the internal fonts or a font that is downloaded to the printer memory or stored on memory card or hard disk.

In this menu, you can also set the type and pitch for Courier and Letter Gothic; as well as to print a font list.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Font >** appears.



- 3 Press the  $\triangleright$  key. Press the  $\Delta$  or  $\nabla$  key until **>Font Select >** appears.



- 4 To select an internal font, make sure that **Internal** is displayed and press the  $\triangleright$  key. The display changes as shown below. If **Internal** is not displayed, press the **ENTER** key, then press the  $\Delta$  or  $\nabla$  key until it appears.



To select an optional font, press the **ENTER** key while **>Font Select >** is displayed. Press the  $\Delta$  or  $\nabla$  key repeatedly until **Option** appears and then press the **ENTER** key. Press the  $\triangleright$  key next to display the font selection shown above. You can perform this operation only when optional fonts are installed in the printer.

The letter before the number indicates the location of the font, as shown below:

|   |   |
|---|---|
| I | Internal font                           |
| S | Soft (downloaded) font                  |
| M | Fonts in optional memory card           |
| H | Fonts in RAM disk or optional hard disk |
| O | Fonts in optional ROM (API)             |

- 5 Press the **ENTER** key. A blinking question mark (?) appears.



- 6 Press the  $\Delta$  or  $\nabla$  key repeatedly until the desired font number appears. For font numbers of the internal fonts, see *Printing Lists of Fonts on page 3-51*.

- 7 When the desired font is displayed, press the **ENTER** key.

- 8 Press the **MENU** key. The display returns to Ready.

### Selecting Regular or Dark Courier/Letter Gothic

Courier or Letter Gothic font thickness can be selected as Regular or Dark. In the procedure below, it is assumed that Courier is selected. The procedure is the same for Letter Gothic.

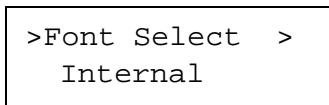
1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Font >** appears.



Font >

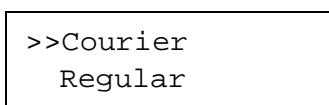
3 Press the  $\triangleright$  key. Press the  $\Delta$  or  $\nabla$  key until **>Font Select >** appears.



>Font Select >  
Internal

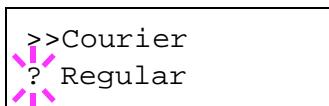
4 Make sure that **Internal** is displayed and press the  $\triangleright$  key.

5 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>>Courier** appears. If you are selecting the thickness of the Letter Gothic font, choose **>> Letter Gothic** here instead.



>>Courier  
Regular

6 Press the **ENTER** key. A blinking question mark (?) appears.



>>Courier  
? Regular

7 Select **Regular** or **Dark** using the  $\Delta$  or  $\nabla$  key.

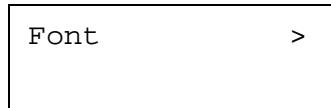
8 Press the **ENTER** key.

9 Press the **MENU** key. The display returns to **Ready**.

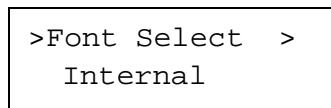
### Changing the Default Font Size

You can change the size of the default font. If you selected a proportional font, the character size can also be changed.

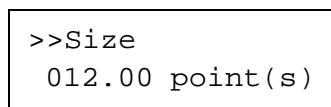
- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Font >** appears.



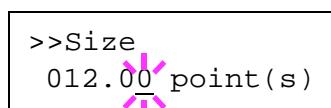
- 3 Press the  $\triangleright$  key. Press the  $\Delta$  or  $\nabla$  key until **>Font Select >** appears.



- 4 Make sure that **Internal** is displayed and press the  $\triangleright$  key.
- 5 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>>Size** appears.



- 6 Press the **ENTER** key. A blinking cursor (\_) appears.



- 7 Press the  $\Delta$  or  $\nabla$  key to increase or decrease the value at the blinking cursor. The font size can be set between 4 and 999.75 points, in 0.25-point increments. Use the  $\triangleright$  or  $\triangleleft$  key to move the cursor right and left.
- 8 When the desired size is displayed, press the **ENTER** key.
- 9 Press the **MENU** key. The display returns to Ready.

### Character Pitch for Courier/Letter Gothic

You can set the character pitch for fixed fonts when the default font is Courier or Letter Gothic.

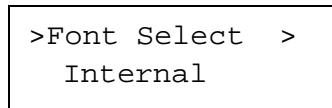
1 Press **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Font >** appears.



Font >

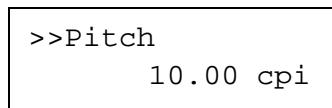
3 Press the  $\triangleright$  key. Press the  $\Delta$  or  $\nabla$  key until **>Font Select >** appears.



>Font Select >  
Internal

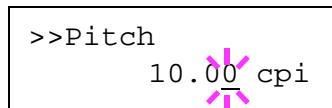
4 Make sure that **Internal** is displayed and press the  $\triangleright$  key.

5 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>>Pitch** appears.



>>Pitch  
10.00 cpi

6 Press the **ENTER** key. A blinking cursor (\_) appears.



>>Pitch  
10.00 cpi

7 Press the  $\Delta$  or  $\nabla$  key to increase or decrease the value at the blinking cursor. The character pitch can be set between 0.44 and 99.99 characters per inch, in 0.01 character-per-inch increments. Use the  $\triangleright$  or  $\triangleleft$  key to move the cursor right and left.

8 When the desired size is displayed, press the **ENTER** key.

9 Press the **MENU** key. The display returns to Ready.

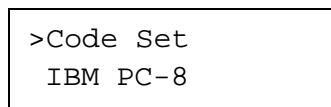
### Setting the Code Set

You can change the character code set. Available character code sets vary depending on the current font. (The default is IBM PC-8.)

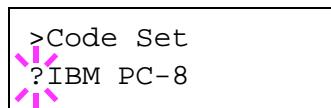
- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Font >** appears.



- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Code Set** appears.



- 5 Press the **ENTER** key. A blinking question mark (?) appears.



- 6 Press the  $\Delta$  or  $\nabla$  key until the desired character code set appears.
- 7 Press the **ENTER** key.
- 8 Press the **MENU** key. The display returns to Ready.

### Printing Lists of Fonts

To help you decide in selecting a font, you can printout lists of the internal fonts or the optional fonts including downloaded fonts. Samples for font lists are shown in *Figure 3-8 on page 3-52*.

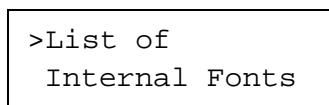
1 Press the **MENU** key.

2 Press the  $\triangle$  or  $\nabla$  key repeatedly until **Font >** appears.

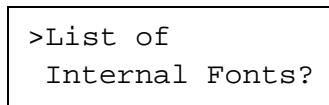


3 Press the  $\triangleright$  key.

4 Press the  $\triangle$  or  $\nabla$  key repeatedly until **>List of Internal Fonts** or **>List of Option Fonts** appears.



5 Press the **ENTER** key. A question mark (?) appears.



6 Press the **ENTER** key again. **Processing** appears, then **Ready**. The printer prints out a list of fonts with a sample and font ID (number) for each of them. Sample lists of fonts are shown in *Figure 3-8* on the next page.

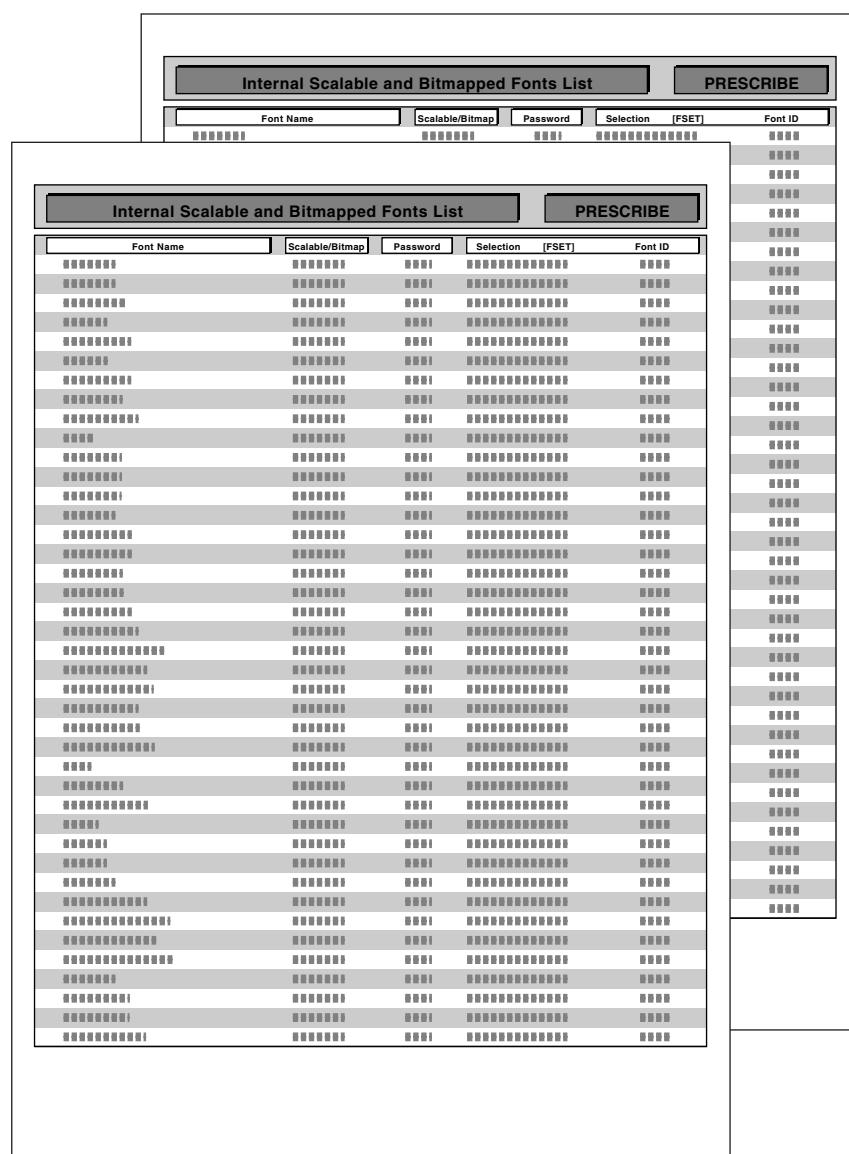


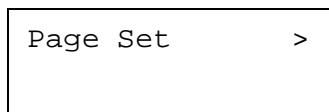
Figure 3-8

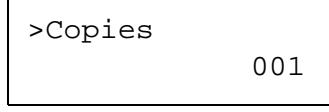
## 3.7 Pagination

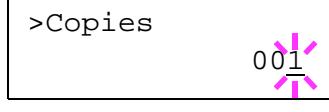
In Page Set menus, you can set the number of copies, page orientation, and other settings regarding pagination.

### 3.7.1 Number of Copies

You can set the number of copies of each page to be printed for the current interface. The number of copies can be set between 1 and 999.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Page Set > appears.  


Page Set >
- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >Copies appears.  


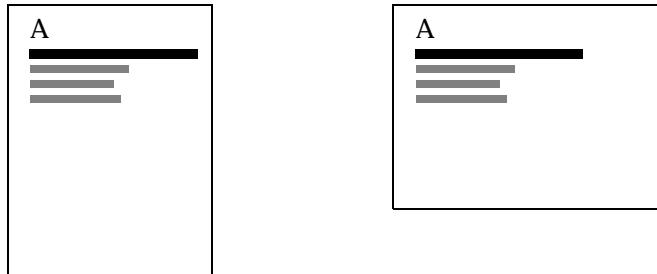
>Copies  
001
- 5 Press the **ENTER** key. A blinking cursor (\_) appears.  


>Copies  
001
- 6 Press the  $\Delta$  or  $\nabla$  key to increase or decrease, respectively, the value at the blinking cursor. Use the  $\triangleright$  and  $\triangleleft$  keys to move the cursor right and left.
- 7 When the desired size is displayed, press the **ENTER** key.
- 8 Press the **MENU** key. The display returns to Ready.

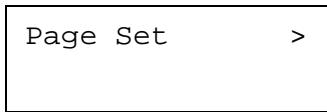
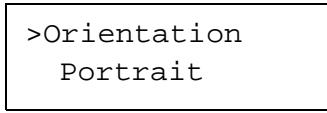
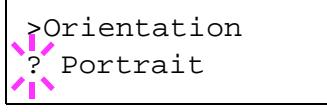
### 3.7.2 Print Orientation

You can select portrait (upright) or landscape (sideways) page orientation.

Portrait Orientation      Landscape Orientation



**Figure 3-9**

- 1** Press the **MENU** key.
- 2** Press the  $\Delta$  or  $\nabla$  key repeatedly until **Page Set >** appears.  

- 3** Press the  $\triangleright$  key.
- 4** Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Orientation** appears.  

- 5** Press the **ENTER** key. A blinking question mark (?) appears.  

- 6** Select **Portrait** or **Landscape** using the  $\Delta$  or  $\nabla$  key.
- 7** Press the **ENTER** key.
- 8** Press the **MENU** key. The display returns to **Ready**.

### 3.7.3 Page Protect Mode

The Page Protect Menu does not normally appear, however, Page Protect will be forcibly set to On if a print overrun error occurs due to insufficient printer memory. When this has happened, be sure to reset Page Protect to Auto (default) in order to maintain the optimum use of printer memory.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Page set > appears.

Page set >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >Page Protect appears.

>Page Protect  
On

- 5 Press the **ENTER** key. A blinking question mark (?) appears.

>Page Protect  
? On

- 6 Press the  $\Delta$  or  $\nabla$  key repeatedly until Auto appears.

>Page Protect  
? Auto

- 7 Press the **ENTER** key.
- 8 Press the **MENU** key. The display returns to Ready.

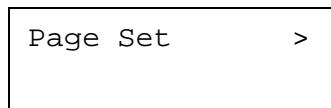
### 3.7.4 Linefeed (LF) Action

This procedure instructs the printer what to do when it receives a linefeed code (0AH).

- LF Only: Linefeed is performed (Default).
- CR and LF: A linefeed and carriage return are performed.
- Ignore LF: The linefeed is ignored.

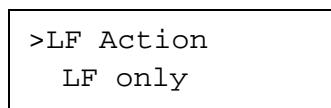
1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Page Set > appears.

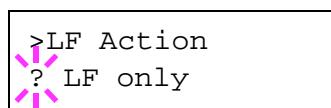


3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >LF Action appears.



5 Press the **ENTER** key. A blinking question mark (?) appears.



6 Press the  $\Delta$  or  $\nabla$  key repeatedly until the desired linefeed action appears.

7 When the desired action is displayed, press the **ENTER** key.

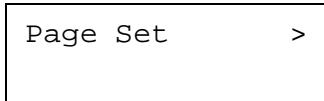
8 Press the **MENU** key. The display returns to Ready.

### 3.7.5 Carriage-Return (CR) Action

This procedure instructs the printer what to do when it receives a carriage-return code (0DH).

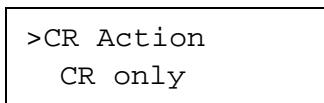
- CR Only: A carriage-return is performed (Default).
- CR and LF: A linefeed and carriage return are performed.
- Ignore CR: The carriage-return is ignored.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Page Set > appears.



Page Set >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >CR Action appears.



>CR Action  
CR only

- 5 Press the **ENTER** key. A blinking question mark (?) appears.
- 6 Press the  $\Delta$  or  $\nabla$  key repeatedly until the desired carriage-return action appears.
- 7 When the desired action is displayed, press the **ENTER** key.
- 8 Press the **MENU** key. The display returns to Ready.

## 3.8 Setting Print Quality

The printer features the Print Quality menu which lets you select:

- Tone mode (Normal and Fine)
- Gloss mode (Low and High)

### 3.8.1 Tone Mode

The Tone Mode selects the way the printer handles a pixel for representing the color and halftoning for each pixel — Normal or Fine. The Fine tone mode uses four-bit smooth halftone for photographs, image, etc.; and the Normal tone mode uses a two-bit halftone for text, solid objects, etc. Either of these tone modes consistently affects all objects on a page.

The Fine tone mode provides the print quality better than Normal, but the printing speed is slower and more memory is required. To enable the printing in Fine tone mode (4 bpp) on A3 or B4 with duplex printing, the minimum printer memory requirement is 160 MB.



Note

**The amount of memory actually required may vary depending on the data to print.**

The default tone mode is Normal. To confirm and change the tone mode, proceed as follows:

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Print Quality >** appears.

Print Quality >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Tone** appears.

>Tone  
 Normal

- 5 To change the toner mode, press the **ENTER** key. A blinking question mark (?) appears.

>Tone  
 ? Normal

- 6 Press the  $\Delta$  or  $\nabla$  key to change to **Fine**.
- 7 Press the **ENTER** key to finalize the tone mode.
- 8 Press the **MENU** key. The display returns to **Ready**.

### 3.8.2 Gloss Mode

The gloss mode, when set to High, increases the effect of glossiness in printing by reducing the printing speed by half. The gloss mode is not available when Transparency is selected as the paper type setting.



Note

**Depending on the paper used, printing in gloss mode may cause wrinkle in paper. To reduce wrinkle, try using thicker paper.**

The default gloss mode is Low. To confirm or change the gloss mode, proceed as follows:

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Print Quality >** appears.

Print Quality >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Gloss Mode** appears.

>Gloss Mode  
 Low

- 5 To change the gloss mode, press the **ENTER** key. A blinking question mark (?) appears.

>Gloss Mode  
 ? Low

- 6 Press the  $\Delta$  or  $\nabla$  key to change from Low to High.
- 7 Press the **ENTER** key to finalize the selection.
- 8 Press the **MENU** key. The display returns to Ready.

## 3.9 Operating the Storage Device

The printer supports three types of storage device; memory card, option hard disk, and RAM disk. The memory card and option hard disk are installed into the dedicated slots of the printer. The RAM disk is an allocated part of the printer's memory. If the optional hard disk is installed in the printer, the e-MPS function will be available. For details, see [e-MPS on page 3-20](#).

The basic operations of each storage device are the same. This section mainly explains the operation of the memory card.

### 3.9.1 Using the Memory Card

The printer is equipped with a slot for a memory card. By inserting a memory card into the printer, the following operations become available.

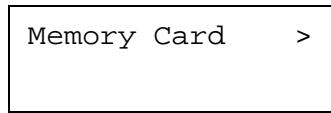
- Reading Font Data
- Reading Data
- Writing Data
- Deleting Data
- Formatting Memory Card
- Printing a List of Data Names

For details about the handling of the memory card, see [Appendix A Options, section A.3.1 Memory Card on page A-7](#).

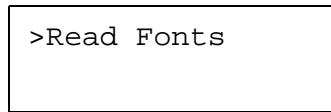
#### Reading Font Data

In case of a memory card if a memory with the font data card is already inserted into the slot when the printer is turned on, the fonts are automatically read into the printer. To read fonts into the printer from a memory card, proceed as follows.

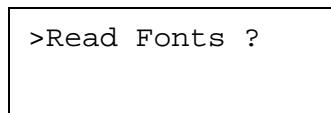
- 1 Press the **MENU** key.
- 2 Press the  $\triangle$  or  $\nabla$  key repeatedly until Memory Card > appears.



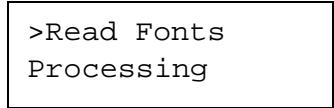
- 3 Press the  $\triangleright$  key.
- 4 Press the  $\triangle$  or  $\nabla$  key repeatedly until >Read Fonts appears.



- 5 Press the **ENTER** key. A question mark (?) appears.



6 Press the **ENTER** key. Processing appears and the reading of data from the memory card starts. When completed, Processing disappears.



>Read Fonts  
Processing

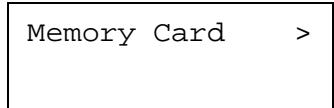
7 Press the **MENU** key. The display returns to Ready.

### Reading Data

You can print out the data in the memory card. To read the data saved on the memory card and print it out, proceed as follows.

1 Press the **MENU** key.

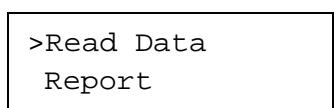
2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Memory Card > appears.



Memory Card >

3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >Read Data appears (Report, in this example).



>Read Data  
Report

5 Press the **ENTER** key. A blinking question mark (?) appears before the data name.



>Read Data  
?Report

6 Press the  $\Delta$  or  $\nabla$  key to display the desired data name.

7 Press the **ENTER** key. Processing appears and the reading of data from the memory card starts.

## Writing Data

Data can be written to a memory card until no space is left for storing. When writing to a memory card, a name is assigned to the file automatically. You can use the procedure explained in the section [Printing a List of Data Names \(Partitions\) on page 3-65](#) to print a list of data names for confirmation.

To write data to a memory card, proceed as follows.



Note

First check that the memory card is properly formatted. Otherwise, the **>Write Data** message to be explained below will not be shown on the message display. If the memory card inserted in the memory card slot is not formatted, the **>Format** will automatically appear on the message display. Format the memory card. See [Formatting a Memory Card on page 3-64](#).

1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Memory Card >** appears.

Memory Card >

3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Write Data** appears.

>Write Data

5 Press the **ENTER** key. A question mark (?) appears.

>Write Data ?

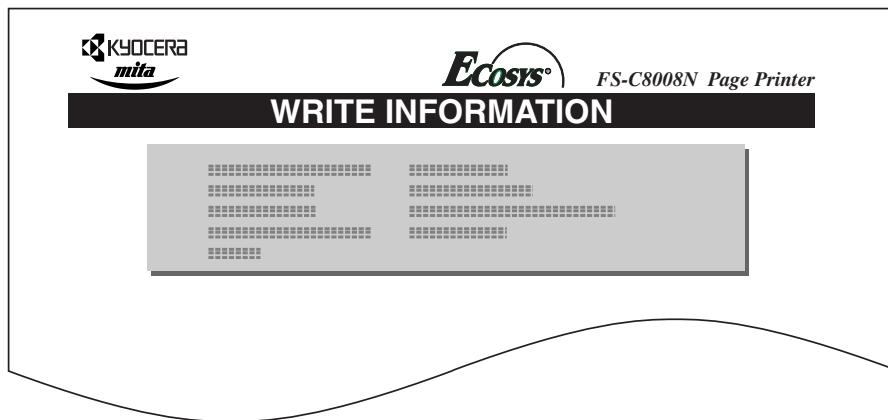
6 Press the **ENTER** key. **Processing** appears, then **Waiting**.

7 In this state, send the file from the computer to the printer.

As the printer receives data, the message display changes to **Processing**, then when the end of the data is received, the message display changes to **Waiting**.

8 Check that the message display has changed to **Waiting**, then press the **GO** key. This writes the file to the memory card and instructs the printer to automatically print out a memory card write information page as shown below.

The file is written onto the memory card given a destination name (also referred to as a partition name) which the printer automatically assigns one after another as follows: DataS001 (first data), DataS002 (second data), DataS003 (third data)...



**Figure 3-10**

|                                |  |
|--------------------------------|--|
| <b>Partition Type:</b>         | Type of data written (currently only type 2 is supported). |
| <b>Partition Name:</b>         | The destination name of data written to the card.          |
| <b>Write Partition Length:</b> | The size of the written data on the memory card.           |
| <b>Others:</b>                 | Error information.   |

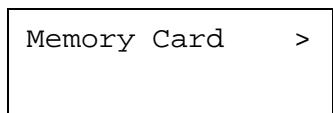
When the memory card write information page is printed, the display returns to Ready.

**9** Repeat above steps until you have transferred all data (files) that you want to write to the memory card. Each time you finish writing data, a memory card write information page is printed from the printer showing the information, but pertaining only to the data just written. To see all data contained in the memory card at once, print a list of data names as explained. See *Printing a List of Data Names (Partitions) on page 3-65*.

### Deleting Data

It is possible to use the printer to delete data from a memory card one by one.

To delete data from a memory card, proceed as follows. Check that the memory card contains data. Otherwise, the >Delete Data menu will not appear on the message display.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Memory Card > appears.  

- 3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Delete Data** appears. The data name also appears (Report, in this example).

```
>Delete Data
Report
```

5 Press the **ENTER** key. A blinking question mark (?) appears before the data name.

```
>Delete Data
?Report
```

6 Press the  $\Delta$  or  $\nabla$  key to display the desired data name.

7 Press the **ENTER** key. Processing appears and the data is deleted from the memory card. The display returns to Ready.

### Formatting a Memory Card

A new memory card must be formatted before it can be used in the printer. Formatting allows data to be written to the memory card.



- **Formatting will destroy any existing data on a storage device including a used memory card.**
- **Formatting of the memory card must be executed from the printer.**

To format a memory card, proceed as follows. When a new memory card is inserted in the printer's slot, Format error Memory card will appear on the message display.

1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Memory Card >** appears.

```
Memory Card >
```

3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Format** appears.

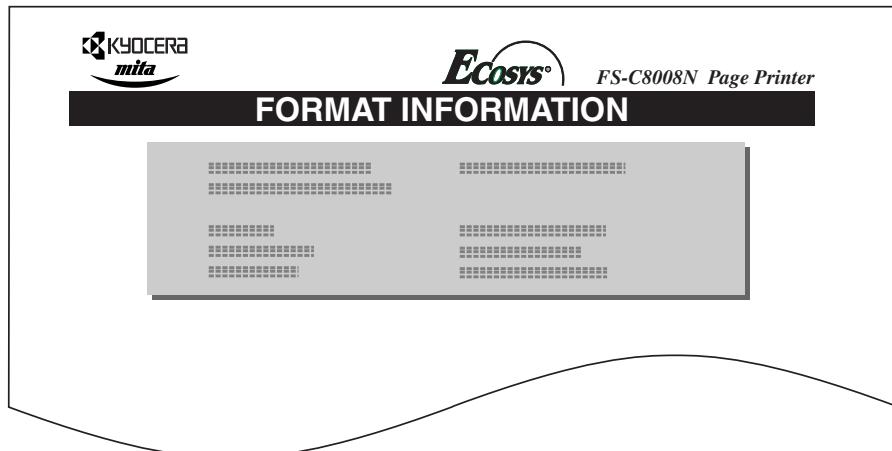
```
>Format
```

5 Press the **ENTER** key. A question mark (?) appears.

```
>Format ?
```

6 Press the **ENTER** key. Processing appears and formatting of the memory card starts.

When the formatting is successfully completed, the printer automatically prints out a format information page, which allows you to check the memory card for proper formatting.



**Figure 3-11**

Format information page includes the following items:

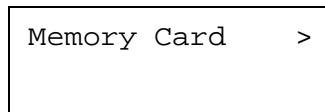
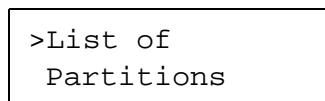
**Capacity:** The total size of the memory card.  
**Used Space:** The size the printer uses for its system.  
**Free Space:** The size remaining in the memory card for storing data.

When the memory card format information is printed, the display returns to Ready.

#### Printing a List of Data Names (Partitions)

The printer prints a list of all data names (referred to as partitions) stored in a memory card for reference. (Printing a list is also available for a font card.)

To print a list of data names for the memory card, proceed as follows.

- 1 Press the  **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Memory Card >** appears.  

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>List of Partitions** appears.  


5 Press the **ENTER** key. A question mark (?) appears.

```
>List of  
Partitions ?
```

6 Press the **ENTER** key. Processing appears and the printing of the list starts.

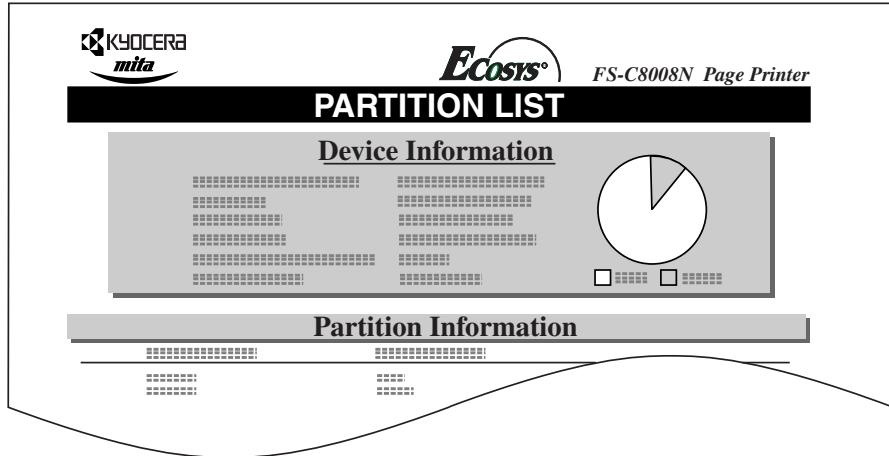


Figure 3-12

The printout (example above) includes the following information:

|                            |  |
|----------------------------|--|
| <b>Device Name/Number:</b> | MEMORY CARD/A is indicated for the memory card.  |
| <b>Capacity:</b>           | The total capacity of the memory card in bytes.  |
| <b>Used Space:</b>         | The total size of the data stored in the memory card in bytes.   |
| <b>Free Space:</b>         | The size of the capacity remaining in the memory card for storing further data, including the amount of memory that the printer uses for its system. |
| <b>Partition Name:</b>     | The name of the written data assigned automatically by the printer.  |
| <b>Partition Size:</b>     | The size of the written data in bytes.   |
| <b>Partition Type:</b>     | The type of the written data i.e., whether it is host data (Data) or font data (Font).   |

When the list of file names (partition list) for the memory card is printed, the display returns to Ready.

### 3.9.2 Using the Option Hard Disk

Installing the option hard disk into the printer allows you to perform the following operations on the hard disk.

- Reading data
- Writing data
- Deleting data
- Formatting hard disk
- Printing a list of data names (partitions)

When an option hard disk is inserted into the printer for the first time, it must be formatted before use. If the option hard disk is not formatted, the **>Format** menu will automatically appear on the message display.

The operations of the option hard disk are the same as those of the memory card. See the relevant sections in [Section 3.9.1 Using the Memory Card on page 3-60](#).

When data is written to the hard disk, the name automatically given to the corresponding file will be DataH001 (for the 1st file), DataH002 (for the 2nd file), DataH003 (for the 3rd file), etc.

### 3.9.3 Using the RAM Disk

The RAM disk is a memory space shared within the printer memory that can temporarily store print jobs. The RAM disk can be used only for electronic sorting. The stored print job can then be used to print multiple copies of the job reducing the total amount of time required to print the whole job. It acts similar to the hard disk except that the data is effective only during the printer is powered up. By default, the RAM disk is not activated (Off).

To use the RAM disk, activate and enter the desired size of the RAM disk in the manner described below. The maximum RAM disk size can be calculated as follows:

Maximum RAM disk size = Total printer memory -36 MB

For example, if the total memory installed in your printer is 256 MB, you can set 224 MB of RAM disk. If you attempt to set the RAM disk size beyond this restriction, the printer automatically round it down so that the size is always 36 MB less than the total printer memory. Once the RAM disk size is set, the printer must be reset.

To activate RAM disk in the printer's memory, first you must set the RAM disk mode to On and set the desired data size for the RAM disk as described in the following section. This allows you to perform the following operations on the RAM disk.

- Reading data
- Writing data
- Deleting data
- Printing a list of data names (partitions)

The operations of the RAM disk are the same as those of the memory card. See the relevant sections in [Section 3.9.1 Using the Memory Card on page 3-60](#). When data is written to the RAM disk, the name automatically given to the corresponding file will be DataH001 (for the 1st file), DataH002 (for the 2nd file), DataH003 (for the 3rd file), etc.



- The RAM disk can not be used when an option hard disk is installed.
- The RAM disk stores data only temporarily. When the printer is reset or turned off, the stored data will be erased.
- The RAM disk is allocated within the printer's memory available to users. If the size of the RAM disk is set too large, the printing speed may decrease or the memory may become insufficient.

To confirm the RAM disk size or activate the RAM disk, proceed as follows:

### Setting the RAM Disk Size

1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until RAM Disk Mode appears.

|               |
|---------------|
| RAM Disk Mode |
| Off           |

3 Press the **ENTER** key. A blinking question mark (?) appears. Press the  $\Delta$  or  $\nabla$  key to select On. Press the **ENTER** key.

|               |
|---------------|
| RAM Disk Mode |
| ?             |
| On            |

4 Press the  $\triangleright$  key. Press the  $\Delta$  or  $\nabla$  key repeatedly until >RAM Disk Size appears. The data size also appears.

|                |
|----------------|
| >RAM Disk Size |
| 0119 MByte     |

5 Press the **ENTER** key. A blinking cursor () appears. Press the  $\Delta$  or  $\nabla$  key to display the desired size. Definable RAM disk size is 0001 to 1024.

|                    |
|--------------------|
| >RAM Disk Size     |
| 011 <u>9</u> MByte |

This range varies depending on the total memory size of the printer. The setting exceeding this range is automatically adjusted to the maximum RAM disk size.

6 When the desired RAM disk size is displayed, press the **ENTER** key.

7 Press the **MENU** key. The display returns to Ready. Then, turn off the printer and on again. The selected RAM disk size is activated after the printer is restarted.

## 3.10 Paper Handling

This section explains how to change mode for the MP (multi-purpose) tray, the paper size and type for each paper source, mode for the option sorter, and how to select the paper source and paper destinations.

### 3.10.1 MP Tray Mode

The MP tray can be used in either of two modes — **Cassette** or **First**. The MP tray feed paper differently depending on the mode:

- **Cassette Mode (default)**

The MP tray acts in the same manner as other paper source. The printer can correctly feed paper from any paper source as you command on the printer driver. The cassette mode provides a faster printing speed than the first mode.

- **First Mode**

The MP tray automatically feeds paper placed on the MP tray overriding another paper source that is selected on the printer driver. After all paper sheets in the MP tray have been used up (approximately 150 sheets), paper will be fed from the paper source originally selected. This mode is convenient to feed paper of special size or type without reloading the current paper source. However, the MP tray must be kept empty if you desire to feed paper from the intended paper source.

To switch the MP tray to **First** mode, proceed as follows:

**1** Press the **MENU** key.

**2** Press the  $\Delta$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.

Paper Handling >

**3** Press the  $\triangleright$  key.

**4** Press the  $\Delta$  or  $\nabla$  key repeatedly until **>MP Tray Mode** appears.

>MP Tray Mode  
Cassette

**5** Press the **ENTER** key. A blinking question mark (?) appears.

?>MP Tray Mode  
? Cassette

**6** Press the  $\Delta$  or  $\nabla$  key to change **Cassette** to **First**.

**7** Press the **ENTER** key. The MP tray mode is changed.

**8** To exit the menu selection, press the **MENU** key.

### 3.10.2 Setting MP Tray Paper Size

When you use the MP tray in cassette mode, you should set the MP tray size to the paper size that is used to format the job to print. If the sizes do not match, printing will not be performed on the correct size paper. The default setting is Letter size for the U.S. and Canada and A4 for other countries.

For more information about the paper sizes that you can feed from the MP tray, see [Chapter 2 Handling Paper](#).



Note

**Feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.**

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.  

**Paper Handling >**
- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>MP Tray Size** appears. In this example, the current MP tray paper size is A4.  

**>MP Tray Size**  
A4
- 5 To change the paper size, press the **ENTER** key. A blinking question mark (?) appears.

---

**6** Press the  $\Delta$  or  $\nabla$  key to display the desired paper size. The message display toggles through the following paper sizes:

A4  
Executive  
Letter-R  
Letter  
Legal  
Ledger  
Ledger Wide  
A3 Wide  
A3  
B4  
Custom  
C4  
Hagaki  
Oufukuhagaki  
Oficio II  
Statement  
Folio  
Youkei 2  
Youkei 4  
8K  
16K  
Monarch  
Business  
Comm. #9  
Comm. #6 3/4  
DL  
C5  
A6  
B6  
A5  
B5  
ISO B5  
A4-R

**7** When the desired paper size is displayed, press the **ENTER** key. The paper size is set for the MP tray.

**8** To exit the menu selection, press the **MENU** key.

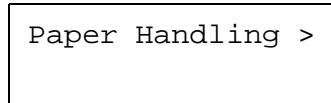
### 3.10.3 Setting the MP Tray Paper Type

By setting a paper type (plain, recycled, etc.) to the MP tray, you can select the paper on the MP tray according to the paper type you command on the printer driver. The default setting is plain paper.

For more information about paper types that can be fed from the MP tray, see [Chapter 2 Handling Paper](#).

1 Press the **MENU** key.

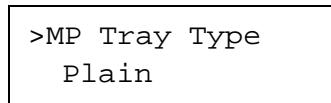
2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.



Paper Handling >

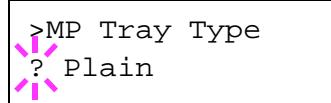
3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>MP Tray Type** appears.



>MP Tray Type  
Plain

5 To change paper type, press the **ENTER** key. A blinking question mark (?) appears.



>MP Tray Type  
? Plain

6 Press the  $\Delta$  or  $\nabla$  key to display the desired paper type. The message display toggles through the following paper types:

Plain  
Transparency  
Preprinted  
Labels  
Bond  
Recycled  
Vellum  
Rough  
Letterhead  
Color  
Prepunched  
Envelope  
Cardstock  
Coated  
Thick  
Custom 1( to 8)

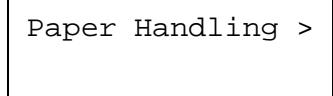
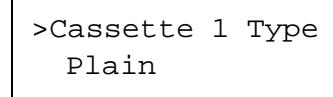
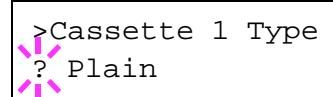
7 When the desired paper type is displayed, press the **ENTER** key. The paper type is set to the MP tray.

8 To exit the menu selection, press the **MENU** key.

### 3.10.4 Setting the Cassette Paper Type

By setting a paper type (plain, recycled, etc.) to the paper cassette, you can automatically select the paper in the paper cassette according to the paper type you command on the printer driver. The default setting is plain paper for all paper cassettes.

For more information about paper types that you can feed from the paper cassette, see [Chapter 2 Handling Paper](#).

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.  

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Cassette # Type** appears. (Where # here refers to the cassette number.)  

- 5 To change paper type, press the **ENTER** key. A blinking question mark (?) appears.  

- 6 Press the  $\Delta$  or  $\nabla$  key to display the desired paper type. The message display toggles through the following paper types:  
  - Plain
  - Preprinted
  - Vellum
  - Recycled
  - Rough
  - Letterhead
  - Color
  - Prepunched
  - Custom 1 (to 8)
- 7 When the desired cassette type is displayed, press the **ENTER** key.
- 8 To exit the menu selection, press the **MENU** key.

### 3.10.5 Selecting the Paper Feed Source

You can select the paper source using the operator panel, from which the printer feeds paper as the default. If an optional paper feeder(s) is installed, it is also available for the default paper source.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.

Paper Handling >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Feed Select** appears.

>Feed Select  
Cassette 1

- 5 To change the current paper feed source, press the **ENTER** key. A blinking question mark (?) appears.

>Feed Select  
? Cassette 1

- 6 Press the  $\Delta$  or  $\nabla$  key to display the desired paper feed source. The message display toggles through the following paper feed sources, depending on the installed optional paper feeders (from the top most paper cassette to the bottom paper cassette):

MP tray  
Cassette 1  
Cassette 2  
Cassette 3  
Cassette 4  
Cassette 5  
Cassette 6

Cassettes 3 and 4 are available for selection when an optional paper feeder is installed. Cassettes 5 and 6 are available for selection when two optional feeders are installed. The FS-C8008DN is equipped with the PD-800 duplex unit as a standard feature, whose Cassette 1 is occupied by the duplexer. Therefore, Cassette 1 is not available for the FS-C8008DN.

- 7 When the desired paper source displayed, press the **ENTER** key.
- 8 To exit the menu selection, press the **MENU** key.

### 3.10.6 Duplex Printing (FS-C8008DN)

The FS-C8008DN is equipped with the PD-800 duplex unit as a standard feature. The Paper Handling menu on the operator panel provides you with activating the duplexer for printing both sides of paper. You can also select the direction the duplex printed pages are bound — short or long edge binding. See *Figure 3-13* below.

Duplex printing is available for the following paper types:

- Plain
- Prepunched
- Bond
- Recycled
- Rough
- Letterhead
- Color
- Prepunched
- Vellum

Activating the duplexer on the operator panel is done by selecting either short edge or long edge binding mode.



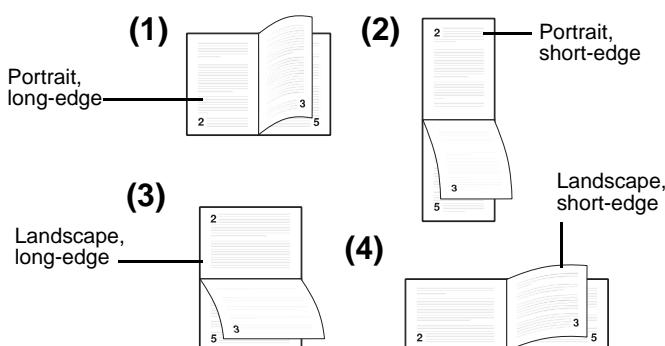
**Note**

Duplex printing can be also performed from the Multi-Purpose (MP) tray. When the MP tray is set to First Mode (“First”), the paper size and paper type will be the same as those of the paper cassette currently set at the paper feed source. If the paper to be fed from the MP tray does not match the paper size and paper type of the current paper feed source cassette, a paper jam may occur.

#### Binding Modes

Binding refers to the manner in which printed pages of paper are joined together (by gluing, stitching, etc.) in book form. The two possible types of binding are: long-edge binding, in which pages are joined together along their long edge; and short-edge binding, in which they are joined together along their short edge. In selecting a binding type, you must also consider the orientation of the printed page. You can use long-edge or short-edge binding with either landscape or portrait printing.

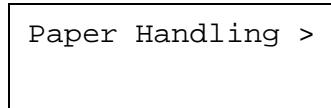
Depending on the binding type and print orientation, the duplexer provides four types of binding. These are: (1) portrait, long-edge, (2) portrait, short edge, (3) landscape, long-edge, and (4) landscape, short-edge. The figure below shows these binding methods.



**Figure 3-13**

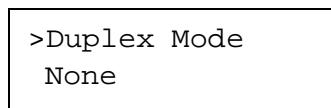
To select duplex printing and binding from the operator panel, use the following procedure:

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.



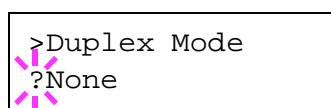
Paper Handling >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Duplex Mode** appears.



>Duplex Mode  
None

- 5 To activate duplex printing, press the **ENTER** key. A blinking question mark (?) appears.



>Duplex Mode  
?None

- 6 Press the  $\Delta$  or  $\nabla$  key to display the desired binding mode. The message display toggles through the following:
  - None (default)
  - Long edge bind
  - Short edge bind
- 7 When the desired binding mode is displayed, press the **ENTER** key. The binding mode is set.
- 8 To exit the menu selection, press the **MENU** key.

#### Note on Duplex Printing from the MP Tray

- You cannot select the MP tray, when it is set to ‘cassette’ mode, to perform duplex printing. To perform duplex printing, select a paper cassette.
- It is possible to duplex-print using the MP tray if it is set in ‘first’ mode. (See *Section 3.10.1 MP Tray Mode on page 3-69*.) However, be sure to set the MP tray paper size and paper type to the same paper size and paper type as those of the current paper cassette. If the paper size or type differs, a paper jam may occur.

### 3.10.7 Overriding Difference between A4 and Letter

When the **Override A4/LT** is turned on using the operator panel, the printer ignores the difference between A4 and Letter paper sizes. Printing is performed without an error message even if the actual paper size in the current cassette differs from the paper size formatting the job.

By default, this feature is off. To confirm and turn on the **Override A4/LT**, proceed as follows:

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.

Paper Handling >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Override A4/LT** appears.

>Override A4/LT  
Off

- 5 To change overriding mode, press the **ENTER** key. A blinking question mark (?) appears.

>Override A4/LT  
? Off

- 6 Press the  $\Delta$  or  $\nabla$  key to change Off to On.
- 7 Press the **ENTER** key. The overriding mode is set.
- 8 To exit the menu selection, press the **MENU** key.

### 3.10.8 Creating Custom Paper Types

The Type Adjust menu on the operator panel may be used to create a user-defined paper type for the printer. Custom paper types allow you to optimize printing parameters such as the fuser temperature best suited for the paper property. It also enables the printer to automatically select the paper cassette in which the custom paper is loaded as commanded by the printer driver.

Up to eight custom user settings may be registered on the operator panel. Creating a custom paper type using the operator panel is a 4-step job:

- selecting one of eight custom setting positions (Custom 1 through 8)
- selecting the paper weight
- selecting the fuser temperature
- enabling or disabling duplexing for the paper type

Custom paper types can be reset afterwards by following the steps in [Section 3.10.9 Resetting the Custom Paper Type on page 3-80](#).

#### Step 1. Selecting the Custom Type Position

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.

A rectangular box representing the operator panel display. Inside, the text "Paper Handling >" is centered, with a small downward-pointing arrow to the right of the "g".

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Type Adjust >** appears.

A rectangular box representing the operator panel display. Inside, the text ">Type Adjust >" is on the first line, and "Custom 1" is on the second line.

- 5 Press the **ENTER** key. A blinking question mark (?) appears.

A rectangular box representing the operator panel display. Inside, the text ">Type Adjust" is on the first line, and "? Custom 1" is on the second line. The question mark is highlighted with a pink dashed box.

- 6 Press the  $\Delta$  or  $\nabla$  key to scroll to the other custom position.

Custom 1  
Custom 2  
Custom 3  
Custom 4  
Custom 5  
Custom 6  
Custom 7  
Custom 8

7 When the paper type to be customized is displayed, press the **ENTER** key. Proceed to the next procedure.

### Step 2. Selecting the Paper Weight

- 1 Complete **Step 1.** above.
- 2 Press the  $\triangleright$  key.
- 3 Press the  $\triangle$  or  $\nabla$  key repeatedly until >>Paper Weight appears.

>>Paper Weight  
 Normal

- 4 Press the **ENTER** key. A blinking question mark (?) appears.

>>Paper Weight  
 ? Normal

- 5 Press the  $\triangle$  or  $\nabla$  key to display the desired paper thickness from the following:
  - Normal (default)
  - Heavy (Thick)
  - Extra Heavy
- 6 When the desired paper thickness is displayed, press the **ENTER** key. Proceed to the next procedure.

### Step 3. Selecting the Fuser Mode

- 1 Complete **Step 2.** above.
- 2 Press the  $\nabla$  key.
- 3 Press the  $\triangle$  or  $\nabla$  key repeatedly until >>Fuser Mode appears.

>>Fuser Mode  
 Low

- 4 Press the **ENTER** key. A blinking question mark (?) appears.

>>Fuser Mode  
 ? Low

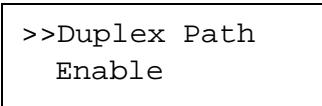
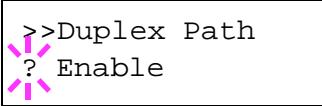
- 5 Press the  $\triangle$  or  $\nabla$  key to display the desired fuser mode from the following:
  - Low (default)
  - Middle

**6** When the desired fuser mode is displayed, press the **ENTER** key. Proceed to the next step.

#### Enabling or Disabling Duplex Printing for Custom Paper Type

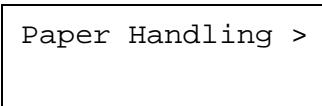
This parameter is valid for the FS-C8008DN printer which is equipped with the duplexer as a standard feature. When this parameter is disabled for a Custom type, the printer does not duplex print when the custom size is selected for the paper type in a print job.

By default, duplex printing is enabled for custom paper types. To confirm and change this, proceed as follows:

- 1** Complete **Step 3.** above.
- 2** Press the  $\triangleright$  key.
- 3** Press the  $\triangle$  or  $\nabla$  key repeatedly until **>>Duplex Path** appears.  
  
A rectangular box containing the text ">>Duplex Path" on the top line and "Enable" on the bottom line. The text is black on a white background.
- 4** To change duplex printing, press the **ENTER** key. A blinking question mark (?) appears.  
  
A rectangular box containing the text ">>Duplex Path" on the top line and "? Enable" on the bottom line. The question mark is highlighted with a pink circle. The text is black on a white background.
- 5** Press the  $\triangle$  or  $\nabla$  key to change from **Enable** to **Disable**.
- 6** Press the **ENTER** key. The duplex printing capability is changed.
- 7** To exit the menu selection, press the **MENU** key.

#### 3.10.9 Resetting the Custom Paper Type

If you want to reset all custom paper type settings (1 to 8) to the factory default, proceed as follows:

- 1** Press the **MENU** key.
- 2** Press the  $\triangle$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.  
  
A rectangular box containing the text "Paper Handling >" on the top line. The text is black on a white background.
- 3** Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >Reset Type Adjust appears.

>Reset Type  
Adjust

5 To reset all custom paper types, press the **ENTER** key. A question mark (?) appears.

>Reset Type  
Adjust ?

6 Press the **ENTER** key. All customized paper types, including weight and duplex printing capability, will be reset to the default. The display returns to Ready.

### 3.10.10 Selecting the Output Stack

The Stack Select menu on the operator panel allows you to select either the face-down tray or the face-up tray for the output stack. If an optional output device such as the sorter, document finisher, or bulk stacker, is installed, it can also be selected as an output stack.

1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until Paper Handling > appears.

Paper Handling >

3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until >Stack Select appears.

>Stack Select  
Face-down tray

5 To change the output stack, press the **ENTER** key. A blinking question mark (?) appears.

>Stack Select  
? Face-down tray

6 Press the  $\Delta$  or  $\nabla$  key to toggle through the following output stacks:

Face-down tray  
Face-up tray

The output stacks change to include the following when an optional bulk stacker (ST-30) is installed:

Face-down tray  
Stacker F-up  
Stacker F-down

The output stacks change to include the following when an optional document finisher (DF-31) is installed:

Face-down tray  
Finisher F-up  
Finisher F-down

The output stacks change to include the following when an optional sorter (SO-30) is installed:

Face-down tray  
Sorter F-up  
Sorter

- 7** When the desired output stack is displayed, press the **ENTER** key.
- 8** To exit the menu selection, press the **MENU** key.

### 3.10.11 Selecting the Option Sorter Mode

If you install an option sorter (SO-30), you can have your printouts automatically sorted in three different ways when printing multiple copies. The three methods are:

- Sorter mode  
The sorter receives a complete set of a document starting from the top tray.
- Collator mode  
The sorter receives all copies of the same page in each tray starting from the top tray.
- Mailbox mode  
The sorter receives all copies of the same page in each tray starting from the bottom tray.

These modes are depicted in *Table 3-4* which follows:

| Mode                 | Description |
|----------------------|-------------|
| <b>Sorter mode</b>   |             |
| Copy 1 (1-50 pages)  |             |
| Copy 2 (1-50 pages)  |             |
| Copy 3 (1-50 pages)  |             |
| Copy 4 (1-50 pages)  |             |
| .....                |             |
| <b>Collator mode</b> |             |
| 200 copies of page 1 |             |
| 200 copies of page 2 |             |
| 200 copies of page 3 |             |
| 200 copies of page 4 |             |
| .....                |             |
| <b>Mailbox mode</b>  |             |
| Last page            |             |
| First page           |             |

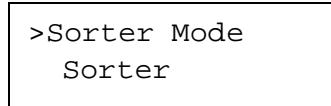
**Table 3-4**

To select one of the sorter modes above from the operator panel, use the following procedure.

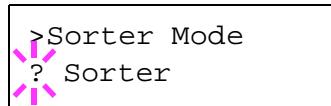
- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Paper Handling >** appears.

## Paper Handling >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\triangle$  or  $\nabla$  key repeatedly until >Sorter Mode appears.



- 5 To change mode, press the **ENTER** key. A blinking question mark (?) appears.



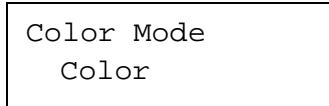
- 6 Press the  $\triangle$  or  $\nabla$  key to display the desired sorter mode. The message display toggles through the following:

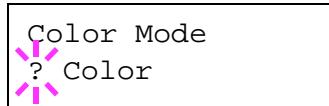
Sorter (default)  
Collator  
Mail box

- 7 When the desired sorter mode is displayed, press the **ENTER** key. The sorter mode is changed.
- 8 To exit the menu selection, press the **MENU** key.

## 3.11 Selecting Monochrome or Color Printing

You can use the Color Mode menu on the operator panel to select the Monochrome or Color printing mode. By default, the printer is set to print in color mode. To change it to monochrome mode, proceed as follows:

- 1 Press the **MENU** key.
  
- 2 Press the  $\triangle$  or  $\nabla$  key repeatedly until **Color Mode** appears.  
A rectangular menu box with a black border. Inside, the text "Color Mode" is centered in a small black font. Below it, the word "Color" is also centered.

Color Mode  
Color
  
- 3 To change color mode, press the **ENTER** key. A blinking question mark (?) appears.  
A rectangular menu box with a black border. Inside, the text "Color Mode" is centered in a small black font. Below it, a question mark "?" is centered, surrounded by a pink dashed circle. The word "Color" is also centered.

Color Mode  
? Color
  
- 4 Press the  $\triangle$  or  $\nabla$  key to change color mode — **Color** or **Monochrome**.
- 5 When the desired color mode is displayed, press the **ENTER** key. Color mode is changed.
- 6 To exit the menu selection, press the **MENU** key.

## 3.12 Reading Life Counters

You can display the total number of pages printed by your printer whenever it is necessary. The total number of printed pages can also be checked on the status page. See [Section 3.3.2 Printing a Status Page on page 3-17](#). For proper maintenance scheduling, you need to reset the toner counter using this menu each time a new toner container is installed.

### 3.12.1 Displaying the Total Printed Pages

This procedure displays the total number of printed pages. You cannot change the displayed value.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Life Counters >** appears.  

**Life Counters >**
- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Total Print** appears and the latest total print count is shown.  

**>Total Print**  
0123456
- 5 To exit the menu selection, press the **MENU** key.

### 3.12.2 Resetting the Toner Counter

The toner containers must be replaced when the printer displays the **Low toner** or **Replace toner** message which will be given depending on the color of toner. The **Low toner** message will be shown as a pre-warning that the toner is running out and the printer will soon stop, at that time showing **Replace toner**. If you replace the toner container before **Replace toner** is displayed, you must manually reset the toner counter as explained below.

Note that if you reset the toner counter before the toner container is replaced, the subsequent toner warnings will not be indicated correctly.

- 1 Replace the toner container according to the message given on the message display. To replace the toner containers, see *Chapter 5 Maintenance, section 5.1 Toner Container Replacement on page 5-2*.
- 2 Press the **MENU** key.
- 3 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Life Counters >** appears.

**Life Counters >**
- 4 Press the  $\triangleright$  key.
- 5 Press the  $\Delta$  or  $\nabla$  key repeatedly until the message display shows the toner container of the color you replaced — [C]yan, [M]agenta, [Y]ellow, or [K]black. For example, to reset the Cyan toner counter, display **>New Toner [C] Installed**.
- 6 Press the **ENTER** key. A question mark (?) appears.

**>New Toner [C]**  
**Installed ?**
- 7 Press the **ENTER** key. The toner counter is reset.
- 8 To exit the menu selection, press the **MENU** key.

## 3.13 Other Modes

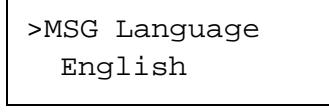
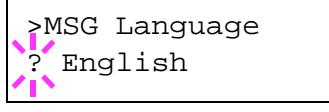
The following modes can be accessed in the **Others** submenu:

- Message Language
- Automatic Form Feed Timeout Setting
- Sleep Timer Setting
- Received Data Dumping
- Printer Resetting
- Resource Setting
- Alarm (Buzzer) Setting
- Auto Continue Setting
- Duplex Printing Error Detection Setting
- Service Menu (for service personnel)
- Color Calibration

### 3.13.1 Selecting the Message Language

You can select the language of the messages on the message display by following the procedure given below. You can optionally download messages in other languages. Contact your Kyocera Mita dealer for information.

- 1 Press the **MENU** key.
- 2 Press the  $\triangle$  or  $\nabla$  key repeatedly until **Others >** appears.  

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\triangle$  or  $\nabla$  key repeatedly until **>MSG Language** appears. The default message language is English.  

- 5 To change the language, press the **ENTER** key. A blinking question mark (?) appears.  


**6** Press the  $\Delta$  or  $\nabla$  key. The display cycles through the available selection in the following order:

English  
Francais  
Deutsch  
Italiano  
Nederlands  
Espanol  
Portugals

**7** Press the **ENTER** key.

**8** Press the **MENU** key. The display returns to Ready.

### 3.13.2 Automatic Form Feed Timeout Setting

If the printer receives no data for a certain period, it will time out and release the current interface. It prints whatever data it has in its buffer and feeds out the page. The default form feed timeout time is 0 seconds. You can adjust the time-out time as follows:

**1** Press the **MENU** key.

**2** Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.

Others >

**3** Press the  $\triangleright$  key.

**4** Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Form Feed Time Out** appears.

>Form Feed  
Time Out 000sec.

**5** To change the timeout time, press the **ENTER** key. A blinking cursor (\_) appears.

>Form Feed  
Time Out 00\_sec.

**6** Press the  $\Delta$  or  $\nabla$  key to increase or decrease the value at the blinking cursor and set the desired time. The timeout time can be between 0 and 495 seconds, in 5-second increments. Use the  $\triangleright$  and  $\triangleleft$  keys to move the cursor right and left.

**7** When the desired timeout time is displayed, press the **ENTER** key.

**8** To exit the menu selection, press the **MENU** key.

### 3.13.3 Setting the Sleep Timer

The printer has a sleep timer that is used to conserve power when the printer is not printing, processing, or receiving data. You can turn off or on the sleep timer function using the following procedure.

1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.

The display shows the text "Others" followed by a right-pointing arrow symbol (>).

3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Sleep Timer >** appears.

The display shows the text ">Sleep Timer" followed by a right-pointing arrow symbol (>) and the value "030 min.".

5 Press the  $\triangleright$  key and display **>>Sleep Mode**.

The display shows the text ">>Sleep Mode" followed by the status "On".

6 To turn off the sleep timer, press the **ENTER** key. A blinking question mark (?) appears.

The display shows the text ">>Sleep Mode" followed by a question mark (?) and the status "On".

7 Press the  $\Delta$  or  $\nabla$  key to change On to Off.

The display shows the text ">>Sleep Mode" followed by a question mark (?) and the status "Off".

8 Press the **ENTER** key. The sleep timer is turned off.

9 To exit the menu selection, press the **MENU** key.

### Sleep Timer Timeout Time

You can adjust the timer timeout time, the length of time the printer waits before entering sleeping mode in the absence of data. The default sleep timer timeout time is 30 minutes.

The printer reverts to normal operation mode when the printer receives a print job, the operator panel is operated, or one of the exterior covers is opened.



**Color calibration is automatically executed before the printer reverts to normal operation mode.**

To confirm and change the timeout time, proceed as follows:

**1** Press the **MENU** key.

**2** Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.

Others >

**3** Press the  $\triangleright$  key.

**4** Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Sleep Timer >** appears.

>Sleep Timer >  
 030min.

**5** To change the timeout time, press the **ENTER** key. A blinking cursor (\_) appears.

>Sleep Timer  
030min.

**6** Press the  $\Delta$  or  $\nabla$  key to increase or decrease the value at the blinking cursor and set the desired time. The timer can be set between 5 and 240 min, in 5-minute increments. Use the  $\triangleright$  and  $\triangleleft$  keys to move the cursor right and left.

**7** When the desired timeout time is displayed, press the **ENTER** key.

**8** To exit the menu selection, press the **MENU** key.

### 3.13.4 Received Data Dump

You can print data received by the printer as hexadecimal code for debugging programs and files.

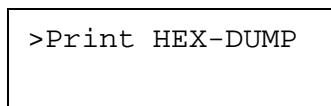
1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.

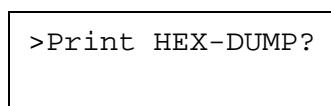


3 Press the  $\triangleright$  key.

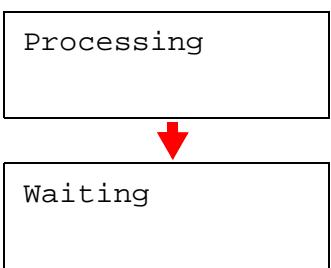
4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **> Print HEX-DUMP** appears.



5 Press the **ENTER** key. A question mark (?) appears.



6 Press the **ENTER** key again. The message **Processing** appears for a second, followed by **Waiting**.



7 While the message display is indicating **Waiting** (for 30 seconds by default), send data to be hex-dumped to the printer. The message display indicates **Processing** while the data is being received.

You can cancel printing of any more dump data by pressing the **GO** key and then the **CANCEL** key.

8 Once all data has been received, the message **Waiting** will appear. Press the **GO** key to finish hex-dump printing.

### 3.13.5 Printer Resetting

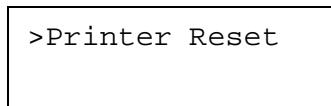
The procedure described below resets the printer's temporary conditions, such as the current page orientation, font, etc., set by commands to their default values. Downloaded fonts and macros are deleted from the printer's memory.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.



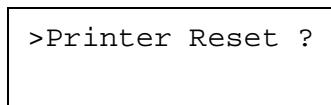
Others >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Printer Reset** appears.



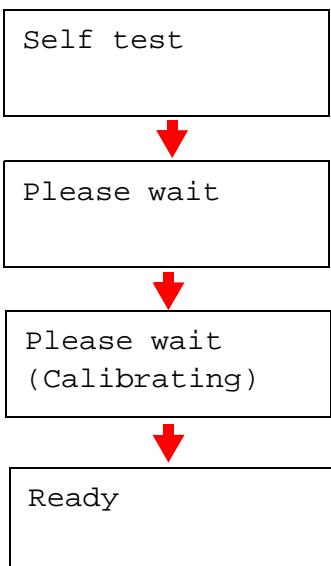
>Printer Reset

- 5 To reset the printer, press the **ENTER** key. A question mark (?) appears.



>Printer Reset ?

- 6 Press the **ENTER** key again. **Self test** appears while the printer is resetting itself, followed by **Please wait** and then **Ready**.



Self test

Please wait

Please wait  
(Calibrating)

Ready

### 3.13.6 Resource Protection

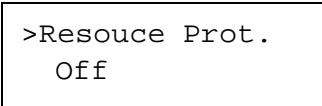
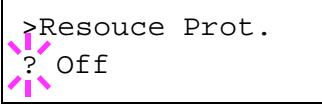
By default, when you switch from the PCL 6 emulation to another, all downloaded fonts and macros will be lost. Resource protection preserves these PCL resources in memory so that they remain intact even when you have switched back in PCL 6.



**Resource protection requires extra memory to store the downloaded fonts and macros. The total size of the printer memory recommended for using the resource protection option is affected by several factors. See [Appendix A Options](#).**

By default, resource protection is deactivated. To activate resource protection, proceed as follows:

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.  

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Resource Prot.** appears.  

- 5 Press the **ENTER** key. A blinking question mark (?) appears.  

- 6 Press the  $\Delta$  or  $\nabla$  key to select **Permanent** or **Perm / Temp** (**Permanent**/**Temporary**) for resource protection.
- 7 When the desired resource protection is displayed, press the **ENTER** key.
- 8 To exit the menu selection, press the **MENU** key.

### 3.13.7 Alarm (Buzzer) Setting

You can set an alarm sound in addition to the message displayed when the paper supply is exhausted, or when paper jamming occurs. This setting is useful, for example, when the printer is located some distance from the user.

The audio alarm is set to **Off** when leaving the factory. If the alarm is set to **Off**, it will not sound.

**1** Press the **MENU** key.

**2** Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.

A rectangular menu box with a black border. Inside, the word "Others" is centered in the top half, and a greater-than symbol ">" is centered in the bottom half.

**3** Press the  $\triangleright$  key.

**4** Press the  $\Delta$  or  $\nabla$  key repeatedly until **Buzzer** appears.

A rectangular menu box with a black border. Inside, the word ">Buzzer" is centered in the top half, and the word "Off" is centered in the bottom half.

**5** Press the **ENTER** key. A blinking question mark (?) appears.

A rectangular menu box with a black border. Inside, the word ">Buzzer" is centered in the top half, and a question mark "?" is centered in the bottom half, with a small pink asterisk-like cursor icon pointing to it.

**6** Select **On** or **Off** using the  $\Delta$  or  $\nabla$  key.

**7** Press the **ENTER** key.

**8** To exit the menu selection, press the **MENU** key.

### 3.13.8 Auto Continue Setting

If an error that still allows you to continue printing occurs (Memory overflow Press GO, Print overrun Press GO, KPDL error Press GO, File not found Press GO, RAM disk error Press GO, MemoryCard err Press GO, Hard disk err Press GO, and Duplex disabled Press GO), the next received data is automatically printed after a set period of time elapses. For example, if the printer is shared over a network as a network printer and one person causes one of the above errors, after the set period of time elapses, the data sent from the next person is printed. The default setting is Off (Auto Continue disabled).



Note

For setting the auto continue recovery time, see the next section.

- 1 Press the **MENU** key.
- 2 Press the  $\triangle$  or  $\nabla$  key repeatedly until **Others >** appears.
 

Others >
- 3 Press the  $\triangleright$  key
- 4 Press the  $\triangle$  or  $\nabla$  key repeatedly until **Auto Continue >** appears.
 

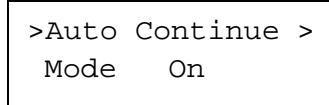
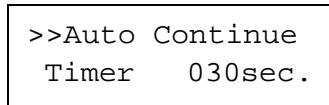
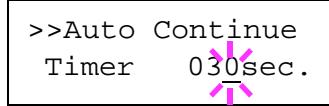
>Auto Continue >  
 Mode Off
- 5 Press the **ENTER** key. A blinking question mark (?) appears.
 

>Auto Continue  
 Mode ? Off
- 6 Select On or Off using the  $\triangle$  or  $\nabla$  key.
- 7 Press the **ENTER** key.
- 8 To exit the menu selection, press the **MENU** key. The display returns to Ready.

### 3.13.9 Setting the Auto Continue Recovery Time

Follow the procedure given below to change the recovery time for Auto Continue.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.  

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Auto Continue > Mode On** appears.  

- 5 Press the  $\triangleright$  key and display **>> Auto Continue Timer**. The default setting is 30 seconds.  

- 6 Press the **ENTER** key. A blinking cursor (\_) appears.  

- 7 Press the  $\Delta$  or  $\nabla$  key to increase or decrease the value at the blinking cursor and set the desired time. The time must be set between 000 and 495 seconds, in 5-second increments. If set to 000, printing will be continued immediately without any time interval. You can use the  $\triangleright$  and  $\triangleleft$  keys to move the cursor right and left.
- 8 Display the desired time and press the **ENTER** key.
- 9 Press the **MENU** key. The display returns to Ready.

### 3.13.10 Duplex Printing Error Detection Setting

If the error detection setting for duplex printing has been turned On, and you attempt to print onto a paper size and paper type that cannot be used for duplex printing, the Duplex disabled Press GO error message will be displayed and printing will stop. To print onto one-side of the paper only when this message is displayed, press the **GO** key. The default setting is Off.

1 Press the **MENU** key.

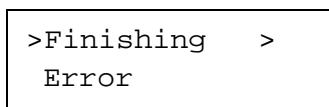
2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.



Others >

3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Finishing Error >** appears.



>Finishing >  
Error

5 Press the  $\triangleright$  key and display **>>Duplex**.



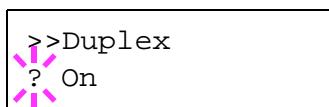
>>Duplex  
Off

6 Press the **ENTER** key. A blinking question mark (?) appears.



>>Duplex  
? Off

7 Press the  $\Delta$  or  $\nabla$  key to change Off to On.



>>Duplex  
? On

8 Press the **ENTER** key.

9 To exit the menu selection, press the **MENU** key.

### 3.13.11 Printing the Service Status Page

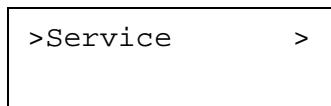
The service status page contains printer settings information that is more detailed than the standard status page and is therefore mostly for service purposes. However, since there is a great deal of information on the service status page that may be useful to you, the procedure for printing it out is given below.

- 1 Press the **MENU** key.
- 2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.



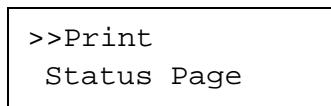
Others >

- 3 Press the  $\triangleright$  key.
- 4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Service >** appears.



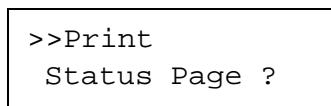
>Service >

- 5 Press the  $\triangleright$  key.
- 6 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>>Print Status Page** appears.



>>Print  
Status Page

- 7 Press the **ENTER** key. A question mark (?) appears.



>>Print  
Status Page ?

- 8 Press the **ENTER** key. The display indicates Processing and printing starts.

### 3.13.12 Color Calibration

This printer contains a calibration function that automatically makes adjustments in compensation for secular changes that occur over time due to variations in the ambient temperature and humidity. So that the highest quality color printing can be maintained, this color calibration operation is carried out automatically each time the power to the printer is turned on, as well as each time the printer reverts to normal operation from the sleep mode. To manually carry out the color calibration operation, perform the following procedure.

1 Press the **MENU** key.

2 Press the  $\Delta$  or  $\nabla$  key repeatedly until **Others >** appears.

A rectangular box representing a printer display. Inside, the text 'Others' is on the left and a right-pointing arrow is on the right, separated by a small gap.

3 Press the  $\triangleright$  key.

4 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>Service >** appears.

A rectangular box representing a printer display. Inside, the text '>Service' is on the left and a right-pointing arrow is on the right, separated by a small gap.

5 Press the  $\triangleright$  key.

6 Press the  $\Delta$  or  $\nabla$  key repeatedly until **>>Color Calibration** appears.

A rectangular box representing a printer display. Inside, the text '>>Color' is on the left and 'Calibration' is on the right, separated by a small gap.

7 To let the printer perform color calibration, press the **ENTER** key. A question mark (?) appears to let you confirm the execution of calibration.

A rectangular box representing a printer display. Inside, the text '>>Color' is on the left and 'Calibration ?' is on the right, separated by a small gap.

8 Press the **ENTER** key. The message display shows **Please wait (Calibrating)** and calibration will start.

A rectangular box representing a printer display. Inside, the text 'Please wait' is on the left and '(Calibrating)' is on the right, separated by a small gap.

9 When calibration is finished, the display returns to **Ready**.

# Chapter 4 Troubleshooting

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This chapter explains how to handle printer problems that may occur. If a problem cannot be corrected, contact your Kyocera Mita dealer. This chapter explains the following topics:

- *General Guidelines*
- *Print Quality Problems*
- *Error Messages*
- *Clearing Paper Jams*

## 4.1 General Guidelines

The table below provides basic solutions for problems you may encounter with the printer. We suggest you consult this table to troubleshoot the problems before calling for service.

| Symptom   | Check Items   | Corrective Action  |
|---|---|--|
| Print quality is not good.  | See <a href="#">Section 4.2 Print Quality Problems on page 4-3</a> .  |  |
| Paper is jammed.  | See <a href="#">Section 4.4 Clearing Paper Jams on page 4-12</a> .  |  |
| Nothing lights on the operator panel even when power is turned on and the fan makes no noise. | <p>Check that the power cord is properly plugged into the power outlet.</p> <p>Check that the power switch is in the On (I) position.</p> | <p>Turn off the printer's power, plug in the power cord securely, and try turning on the printer's power again.</p> <p>Set the power switch to the On position.</p>  |
| The printer prints a status page, but does not print jobs from the computer.                  | <p>Check the printer cable or the interface cable.</p> <p>Check program files and application software.</p>                               | <p>Connect both ends of the printer cable securely. Try replacing the printer cable or the interface cable.</p> <p>Try printing another file or using another print command. If the problem occurs only with a specific file or application, check the printer driver settings for that application.</p> |

**Table 4-1**

### 4.1.1 Tips

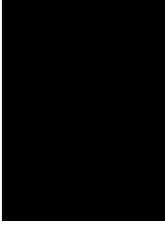
Printer problems may be solved easily by following the tips below. When you have encountered a problem that following the above guidelines will not solve, try the following:

- Turn the printer power off and wait for several seconds. Then, turn on the printer.
- Reboot the computer which sends the print jobs to the printer.
- Obtain and use the latest version of the printer driver. The latest versions of printer drivers and utilities are available at: <http://www.kyoceramita.com/download/>.
- Make sure that the procedures for printing are correctly followed in the application software. Consult the documentation supplied with the application software.
- If the printer prints garbage characters or stalls when the computer is turned on, particularly when the printer is connected to the computer under Windows 98 via the parallel port, rename device driver file `drvwpqqt.vxd`. This file may be located in `Windows\System\Iosubsys` or `Arcada\System` folder. For technical details, visit Microsoft web site for the device driver.

## 4.2 Print Quality Problems

The tables and diagrams in the following sections define print quality problems and the corrective action you can conduct to solve the problems. Some solutions may require cleaning or replacing parts of the printer.

If the suggested corrective action will not solve the problem, call for service.

| Printed Results   | Corrective Action  |
|---|--|
| <b>Completely blank printout</b><br> | Check the toner containers.<br>Open the printer front cover and check that the toner containers are correctly installed in the printer. For more information on installing the toner containers, see the separate <i>Installation Guide</i> supplied with the printer. |
| <b>All-black printout</b><br>      | Check the primary transfer unit.<br>If paper is jammed in the primary transfer unit, remove the paper. See <a href="#">Figure 4-17 on page 4-21</a> for details.   |
|   | Check that the application software is correctly operated.<br>Call a service.  |

**Table 4-2**

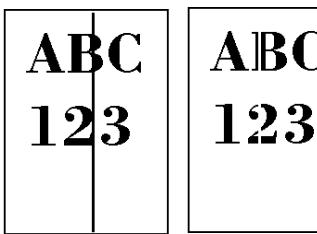
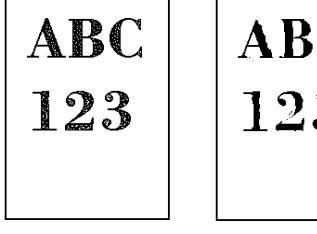
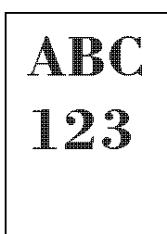
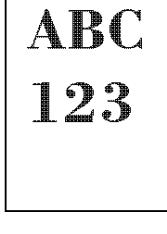
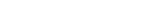
| Printed Results   | Corrective Action   |
|---|---|
| Black or white vertical streaks   | <p>Check the operator panel for toner. If the Toner low (C/M/Y/K) message is displayed with color description, install a new toner kit for the color. To replace the toner container, see <a href="#">Chapter 5 Maintenance, section 5.1 Toner Container Replacement on page 5-2</a>.</p> |
|    |   |
| Faint or blurred printing   | <p>Clean the main charger. Open the printer front cover. Pull the green cleaning knob slowly in and out a few times. For full details, see <a href="#">Chapter 5 Maintenance, section 5.3.2 Cleaning the Main Charger Unit on page 5-12</a>.</p>  |
|   |   |
|  | <p>Check the primary transfer unit for jammed paper remaining. For removal of jammed paper, see <a href="#">Paper Jam—Paper Transfer Unit on page 4-17</a>.</p>   |
|  | <p>Make sure the paper type setting is correct the paper being used. See <a href="#">Chapter 3 Using the Operator Panel, section 3.10.4 Setting the Cassette Paper Type on page 3-73</a>.</p>   |
|  | <p>Conduct color calibration either by switching the printer off then on or using the printer operator panel (<b>MENU</b>). For full details, see <a href="#">Chapter 3 Using the Operator Panel, section 3.13.12 Color Calibration on page 3-100</a>.</p>                                |
|  | <p>Try adjusting the color control settings using the printer driver.</p>   |
|  | <p>Try switching the tone mode between Normal and Fine using the operator panel (<b>Menu&gt;Print Quality&gt;Tone</b>).</p>   |
|  | <p>Check the operator panel. If the Toner low (C/M/Y/K) message is displayed with color description, install a new toner kit for the color. To replace toner, see <a href="#">Chapter 5 Maintenance, section 5.1 Toner Container Replacement on page 5-2</a>.</p>                         |
|  | <p>Moisture condensation may have been occurred on the primary transfer unit. Open the printer front cover, draw the paper transfer unit out, and draw the primary transfer unit. Allow approximately 2 hours until the condensation dries up.</p>  |

Table 4-2 (Continued)

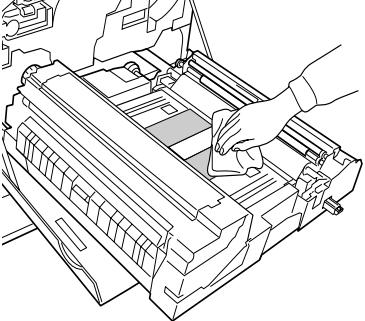
| Printed Results                           | Corrective Action  |
|---|--|
| Grey background                           | <p>Clean the main charger.</p> <p>Open the printer front cover. Pull the green cleaning knob slowly in and out a few times. For full details, see <a href="#">Chapter 5 Maintenance, section 5.3.2 Cleaning the Main Charger Unit on page 5-12</a>.</p>  |
| Dirt on the top edge or back of the paper | <p>Conduct color calibration either by switching the printer off then on or using the printer operator panel (<b>MENU</b>). For full details, see <a href="#">Chapter 3 Using the Operator Panel, section 3.13.12 Color Calibration on page 3-100</a>.</p>   |
| Printing incomplete or out of position    | <p>Clean the rubber belts. See below. For details, see <a href="#">Chapter 5 Maintenance, section 5.3.1 Cleaning the Paper Transfer Unit on page 5-8</a>.</p>  |
|   |  <p>Clean the main charger.</p> <p>Open the printer front cover. Pull the green cleaning knob slowly in and out a few times. For full details, see <a href="#">Chapter 5 Maintenance, section 5.3.2 Cleaning the Main Charger Unit on page 5-12</a>.</p> |
|   | <p>Clean the parts in the paper paths—such as the paper cassette, etc.</p>   |
|   | <p>Check the transfer belt.</p> <p>If the transfer belt is dirty with toner, try printing several pages.</p>   |
|   | <p>Check that the application software is correctly operated.</p>  |
|   | <p>See <a href="#">4.1.1 Tips on page 4-2</a>.</p>   |

Table 4-2 (Continued)

## 4.3 Error Messages

The following table lists errors and maintenance messages that you can be dealt with by yourself. If **Call service** appears, turn off the printer, disconnect the power cord, and contact your Kyocera Mita dealer.

Some errors cause the alarm sound to sound. To stop the alarm sound, press the **CANCEL** key to stop the alarm sound.

| Message                      | Corrective Action  |
|------------------------------|--|
| Add paper MP tray            | The paper has run out in the paper source displayed. Supply paper according to the paper source displayed (paper cassettes, MP tray, or optional paper feeders).   |
| Add staples<br>Press GO      | This message is displayed alternately with messages indicating the printer status, such as, Ready, Please wait, Processing, Waiting, and Form Feed Time Out. If the number of copies to print is 2 or more, only the Add paper message is displayed. |
| Call service<br>####:0123456 | #### represents a mechanical error (#=0, 1, 2, ...). Call a service. The printer does not operate when this message is displayed. The total number of pages printed is also indicated, e.g. 0123456.   |
| Call service<br>F###:        | F### represents a controller error (#=0, 1, 2, ...). Call a service. The printer does not operate when this message is displayed.  |
| Call service<br>Person F0    | This message means an error in data communications between the printer controller and the operator panel. Call a service.  |
| Cassette #<br>not loaded     | The corresponding paper cassette is not installed. Install the cassette. The cassette number can be 1 (topmost) to 6 (bottom); and for the DN model, 2 to 6.   |
| Check waste<br>toner box     | This message warns following two cases. Install the new waste toner box. <ul style="list-style-type: none"> <li>• The waste toner box is not installed.</li> <li>• The waste toner box is almost full.</li> </ul>                                    |
| Close<br>finisher cover      | The optional document finisher (DF-31) cover is open. Close the cover.   |
| Close<br>front cover         | The front cover is open. Close the front cover.  |
| Close<br>left cover          | The left cover of the printer is open. Close the printer left cover.   |
| Close<br>right cover #       | The right cover of paper feeder is open. Close the cover of the paper feeder 1 (topmost) to 3 (bottom) as displayed in place of #.   |
| Close<br>sorter cover        | The optional sorter (SO-30) cover is open. Close the cover.  |

Table 4-3

| Message                            | Corrective Action   |
|------------------------------------|---|
| Close<br>stacker cover             | The optional bulk stacker (ST-30) cover is open. Close the cover.   |
| Duplex disabled<br>Press GO        | You attempted to print with a paper size and paper type that cannot be used for duplex printing. Press the <b>GO</b> key to print onto one-side of the paper only.  |
| Duplex drawer<br>not loaded        | The duplex drawer is not installed. Install the duplex drawer. This message is applicable to the DN model.  |
| Face-down tray<br>paper full       | The face-down tray has become full (approx. 500 pages). You must remove all printed pages from the face-down tray. When the printer detects that the face-down tray is empty again, the printer will continue printing into the face-down tray.   |
| Face-up tray<br>path error         | The face-up tray is not open although you have attempted to print in the face-up tray. Open the face-up tray.   |
| File not found<br>Press GO         | You have attempted to print a job that is not contained in the specified virtual mailbox, or the specified virtual mailbox is not found.<br>If Auto Continue is set to On, printing will be automatically resumed after a preset period of time. For details on Auto Continue, refer to <i>Chapter 3 Using the Operator Panel</i> . |
| Finisher tray ##<br>paper full     | The optional document finisher (DF-31) tray is full. Remove all printed pages from the tray.  |
| Finisher<br>path error             | The optional document finisher (DF-31) is not installed properly. Correct the installation, by referring to the instructions supplied with the document finisher.   |
| Format error<br>Memory Card        | The memory card inserted in the printer is not formatted, and therefore cannot be read or written. To format a memory card, follow the procedure in <i>Chapter 3 Using the Operator Panel, section Formatting a Memory Card on page 3-64</i> .  |
| Format error<br>Hard disk          | The hard disk installed in the printer is not formatted, and therefore cannot be read or written. To format the hard disk, follow the procedure in the Installation Guide of the hard disk.   |
| Hard disk err ##<br>Press GO       | A hard disk error has occurred. Look at the error code given in place of ## and refer to <i>Storage Error Codes on page 4-11</i> . To ignore the hard disk error, press the <b>GO</b> key.  |
| I/F occupied                       | This message is displayed when you attempt to use the printer's operator panel to change the environmental settings on the interface from which data are presently being received.  |
| ID error                           | The user ID entered for a private job, or a stored job is not correct. Check the user ID that you specified on the printer driver.  |
| Incorrect slot<br>Please reinstall | The optional hard disk is installed in the network interface card slot (OPT) in the printer.<br>The optional network interface card is installed in the hard disk slot (HDD) in the printer.<br>Install it in the appropriate slot.   |

Table 4-3 (Continued)

| Message                                       | Corrective Action   |
|---|---|
| Insert the same memory card                   | You have inserted the wrong memory card when the <b>Insert again</b> message was displayed. Remove the wrong memory card from the printer's memory card slot and insert the correct memory card. The printer again reads it from the beginning of the data.   |
| Install MK [A] <sup>†</sup>                   | Replace Maintenance Kit A which is displayed on your printer message window. Replacement of the maintenance kit is necessary at every 600,000 images of printing and requires professional servicing. Contact your Kyocera Mita dealer.   |
| Install MK [B] <sup>†</sup>                   | Replace Maintenance Kit B. Replacement of the maintenance kit B is necessary at every 300,000 pages of printing and requires professional servicing. Contact your Kyocera Mita dealer.  |
| Install MK [C] <sup>†</sup>                   | Replace Maintenance Kit C. Replacement of the maintenance kit C is necessary at every 300,000 images of printing and requires professional servicing. Contact your Kyocera Mita dealer.   |
| KPDL error ##<br>Press GO                     | Current print processing cannot continue because of occurrence of KPDL error which is categorized by ##. To print out an error report, display > <b>Print KPDL err(s)</b> from the menu system, and select <b>On</b> . Press the <b>GO</b> key to resume printing. You can abandon printing by the <b>CANCEL</b> key. If Auto Continue is set to <b>On</b> , printing will be automatically resumed after a preset period of time.  |
| Load Cassette #<br>(A4)/(PLAIN) <sup>††</sup> | The paper cassette matching the paper size and paper type of the print job is empty. Load paper into the paper cassette as displayed in place of #. Press the <b>GO</b> key to resume printing.<br>If you want to print from a different paper source, press the $\nabla$ or $\Delta$ key to display <b>Use alternative</b> and you can change the source for paper feeding. After selecting a paper source and pressing the <b>MENU</b> key, <b>Paper Handling</b> > appears. By pressing the $\Delta$ key, the paper type settings menu appears. After setting the correct paper type, press the <b>ENTER</b> key and printing starts.<br>If you want to print from a different paper source, see <i>Chapter 3 Using the Operator Panel, section 3.10.5 Selecting the Paper Feed Source on page 3-74</i> .  |
| Load MP Tray<br>(A4)/(PLAIN) <sup>††</sup>    | There is no paper cassette installed in the printer that matches the paper size and paper type of the print job. Set paper in the MP tray. Press the <b>GO</b> key to resume printing. (Note that feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.)<br>If you want to print from a different paper source, press the $\nabla$ or $\Delta$ key to display <b>Use alternative</b> and you can change the source for paper feeding. After selecting a paper source and pressing the <b>MENU</b> key, <b>Paper Handling</b> > appears. By pressing the $\Delta$ key, the paper type settings menu appears. After setting the correct paper type, press the <b>ENTER</b> key and printing starts.<br>If you want to print from a different paper source, see <i>Chapter 3 Using the Operator Panel, section 3.10.5 Selecting the Paper Feed Source on page 3-74</i> . |
| Memory card err<br>Insert again               | The memory card is accidentally removed from the printer's memory card slot during reading. If you continue reading the memory card, insert the same memory card into the slot again. The printer again reads it from the beginning of the data.<br>Also see <i>Insert the same memory card</i> .   |

Table 4-3 (Continued)

| Message                          | Corrective Action  |
|----------------------------------|--|
| Memory overflow<br>Press GO      | The total amount of data received by the printer exceeds the printer's internal memory. Try adding more memory. Press the <b>GO</b> key to resume printing. You can abandon printing by the <b>CANCEL</b> key.<br>If Auto Continue is set to On, printing will be automatically resumed after a preset period of time.   |
| MemoryCard err##<br>Press GO     | A memory card error has occurred. Look at the error code given in place of ## and refer to <a href="#">Storage Error Codes on page 4-11</a> . To ignore the memory card error, press the <b>GO</b> key   |
| Missing #<br>toner container     | Install the toner container using a toner kit for the particular color. The printer does not operate when this message is displayed.   |
| Missing<br>duplex drawer         | The duplex unit is not installed. Install the duplex unit.   |
| Missing<br>stapler unit          | The stapler unit is not installed in the optional document finisher. Install the stapler unit in the document finisher.  |
| Paper jam<br>#####               | A paper jam has occurred. The location of the paper jam is indicated in place of the #'s. For details, see <a href="#">Section 4.4 Clearing Paper Jams on page 4-12</a> .  |
| Paper loading                    | After the paper cassette is closed, paper loading is in progress in the paper cassette.  |
| Print overrun###<br>Press GO     | The print job transferred to the printer was too complex to print on a page. Press the <b>GO</b> key to resume printing. (The page may break in some pages.). You can abandon printing by the <b>CANCEL</b> key.<br>If Auto Continue is set to On, printing will be automatically resumed after a preset period of time. |
| RAM disk error##<br>Press GO     | A RAM disk error has occurred. Look at the error code given in place of ## and refer to <a href="#">Storage Error Codes on page 4-11</a> . To ignore the RAM disk error, press the <b>GO</b> key.  |
| Remove paper<br>Finisher tray ## | Paper remains in an option document finisher as displayed in place of ##. Remove printed pages.  |
| Remove paper<br>sorter tray ##   | Paper remains in an option sorter tray as displayed in place of ##. Remove printed pages.  |
| Replace toner<br>C,M,Y,K         | Toner has run out in the toner container(s). Replace the toner container using a new toner kit for the particular color. The printer does not operate when this message is displayed.<br>For example, if Replace toner C,M,Y,K is displayed, replace the cyan and the black toner containers.                            |
| Set paper<br>Press GO            | The MP tray is out of paper. Load paper and press the <b>GO</b> key. (Note that feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.)   |
| Sorter tray ##<br>paper full     | A tray of the optional sorter (SO-30) is full. Remove paper sheets in the corresponding tray as displayed in place of ##.  |
| Sorter<br>paper full             | The optional sorter (SO-30) tray is full. Remove paper sheets.   |

Table 4-3 (Continued)

| Message                     | Corrective Action   |
|-----------------------------|---|
| Sorter path error           | The optional sorter (SO-30) is not installed properly. Correct the installation.  |
| Stacker paper full          | The optional bulk stacker (ST-30) tray is full. Remove paper sheets.  |
| Stacker path error          | The optional bulk stacker (ST-30) is not installed properly. Correct the installation.  |
| Toner low<br>C, M, Y, K     | Replace the toner container using a new toner kit. Color of the toner container that needs to be replaced is represented by C (Cyan), M (Magenta), Y (Yellow), and K (Black). |
| Unsupported external device | A device not supported by the printer is installed. Install an option unit supported by the printer.  |
| Virtual mail box full       | The storage area in the hard disk for the virtual mailboxes is full. Print out accumulated jobs in the virtual mailboxes.   |
| Warning low memory          | The printer's internal memory is running low due to too many numbers of fonts and macros downloaded. Try deleting unnecessary fonts and macros.                               |

**Table 4-3 (Continued)**

† These messages may be displayed altogether such as `Install MK [A][B][C]`.

†† Messages separated by ‘( )/( )’ are displayed alternately.

††† After this error has happened, page protect mode will be automatically turned on. To maintain optimum use of memory during printing, we recommend you manually turn off page protect mode. See *Chapter 3 Using the Operator Panel, section 3.7.3 Page Protect Mode on page 3-55*.

## Storage Error Codes

### Hard Disk Errors

| Code | Meaning   |
|------|---|
| 01   | Hard disk format error. If this error recurs even if the power has been turned off and then on, reformat the hard disk.   |
| 02   | The disk system is not installed. Recheck the requirements for using the system and the devices.  |
| 04   | There is no available hard disk space. Delete unnecessary files, etc., in order to free up space.   |
| 05   | The specified file does not exist in the hard disk.   |
| 06   | There is no memory available to the hard disk system. Increase the available memory.  |
| 10   | Formatting is not possible because host data is being spooled on the hard disk. Wait until the hard disk is ready, and then format.                                       |
| 85   | VMB: Alias error. The alias setting was lost, or the virtual tray corresponding to the alias does not exist. Set the alias again.   |
| 97   | The number of permanent code jobs that can be stored reached the limit value, and no more can be saved. Either delete some unnecessary jobs, etc., or increase the limit. |
| 98   | An unreadable page was found in a job (The job is damaged.).  |
| 99   | A print job for the specified ID does not exist in the hard disk.   |

**Table 4-4**

### Memory Card Errors

| Code | Meaning  |
|------|--|
| 01   | The printer does not support the memory card inserted. The memory card must meet the requirements described in <a href="#">Appendix A Options, section A.3.1 Memory Card on page A-7</a> . |
| 02   | The memory card is not installed.  |
| 04   | The memory card is full and cannot hold further data. Purge unnecessary files or use a new memory card.  |
| 05   | Specified file is not on the memory card.  |
| 06   | Insufficient printer memory to support the memory card system. Expand printer memory.  |

**Table 4-5**

### RAM Disk Errors

| Code | Meaning  |
|------|--|
| 01   | Format error. Try turning the power off and on again.                              |
| 02   | RAM disk mode is Off. Turn RAM disk mode On from the operator panel.               |
| 04   | No disk space. Purge unnecessary files.  |
| 05   | Specified file is not on disk.   |
| 06   | Insufficient printer memory to support the RAM disk system. Expand printer memory. |

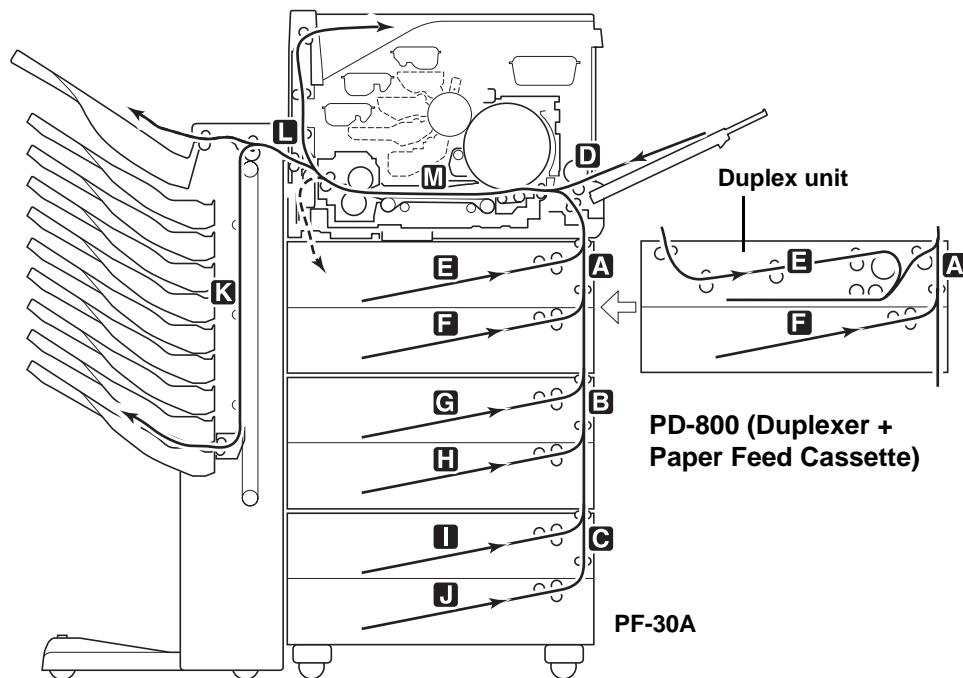
**Table 4-6**

## 4.4 Clearing Paper Jams

If the paper jammed in the paper transport system, or no paper sheets were fed at all, the **Paper jam** message appears and the location of the paper jam (the component where the paper jam has occurred) is also indicated. The printer automatically goes off-line when this message is displayed. Remove jammed paper. After removing jammed paper, the printer will re-start printing.

### 4.4.1 Possible Paper Jam Locations

The figure below explains the printer's paper paths including the options, for example, the document finisher and the duplexer (a standard accessory for the FS-C8008DN). The locations where paper jams might occur are also shown here, with each location explained in *Table 4-7* below. Paper jams can occur in more than one component on the paper paths.



**Figure 4-1**

| Possible location of Jam                                 | Reference  |
|--|--|
| <b>A</b> Right Cover 1                                   | See <i>Section 4.4.3 Paper Jam — Right Cover # on page 4-14</i> .  |
| <b>B</b> Right Cover 2                                   |  |
| <b>C</b> Right Cover 3                                   |  |
| <b>D</b> MP Tray   | See <i>Section 4.4.5 Paper Jam — MP Tray on page 4-15</i> .  |
| <b>E</b> Cassette 1 (FS-C8008N)<br>Duplexer (FS-C8008DN) | See <i>Section 4.4.4 Paper Jam — Cassette # on page 4-14</i> .<br>See <i>Section 4.4.6 Paper Jam — Duplexer on page 4-16</i> . |

**Table 4-7**

| Possible location of Jam |                               | Reference   |
|--------------------------|-------------------------------|---|
| <b>F</b>                 | Cassette 2                    | See <a href="#">Section 4.4.4 Paper Jam — Cassette # on page 4-14</a> .                     |
| <b>G</b>                 | Cassette 3                    |   |
| <b>H</b>                 | Cassette 4                    |   |
| <b>I</b>                 | Cassette 5                    |   |
| <b>J</b>                 | Cassette 6                    |   |
| <b>K</b>                 | Stacker<br>Finisher<br>Sorter | See <a href="#">Section 4.4.9 Paper Jam — Option Stacker/Finisher/Sorter on page 4-23</a> . |
| <b>L</b>                 | Left Cover                    | See <a href="#">Section 4.4.8 Paper Jam — Left Cover on page 4-22</a> .                     |
| <b>M</b>                 | Paper Trans. Unit             | See <a href="#">Section 4.4.7 Paper Jam — Paper Transfer Unit on page 4-17</a> .            |

**Table 4-7 (Continued)**

#### 4.4.2 General considerations for clearing jams

Bear in mind the following considerations when attempting jam removal:



**Caution**

**When you remove paper jams, be sure to remove all of the jammed paper in the printer.**

- If paper jams occur frequently, try using a different type of paper, replace the paper with paper from another ream, flip the paper stack over, or rotate the paper stack 180 degrees. Selection of paper is fully discussed in [Chapter 2 Handling Paper on page 2-1](#). The printer may have problems if paper jams recur after the paper was replaced.
- Whether or not the jammed pages are reproduced normally after printing is resumed depends on the location of the paper jam.

#### Utilizing Online Help Messages

Online help messages are available in the printer's message display to provide simple instructions for clearing jams. Press the **?** key when the paper jam message has appeared. Then a help message will appear to facilitate jam clearing in the location.

#### 4.4.3 Paper Jam — Right Cover #

The paper jammed inside the right cover as the paper leaves the paper cassette. Clear the jam in the indicated right cover.

Open the right cover. Pull the paper outward. Close the cover.

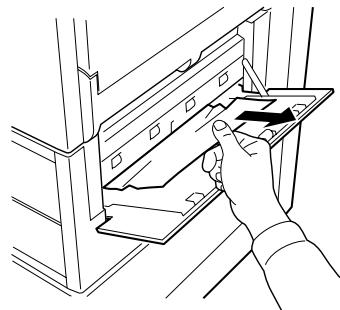


Figure 4-2

#### 4.4.4 Paper Jam — Cassette #

The paper jammed in the paper cassette as indicated by # (=1, 2, 3...), from the topmost feeder cassette to the bottom feeder cassette. Clear the jam in the indicated paper cassette.

Open the paper cassette. Remove the paper.

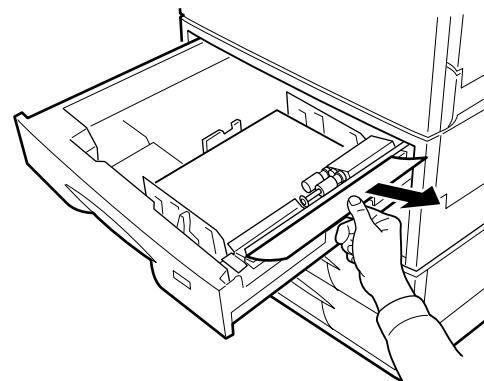
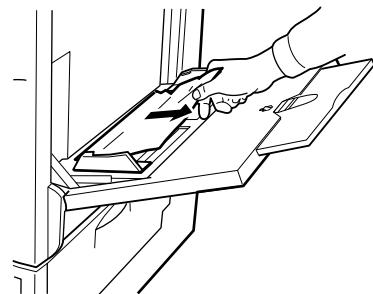


Figure 4-3

#### 4.4.5 Paper Jam — MP Tray

The paper jammed in the MP tray. Clear the jam in the MP tray.

- 1 Remove the jammed paper on the MP tray up and towards the right.



**Figure 4-4**

- 2 Reset the sheets on the MP tray.
- 3 Open and close the front cover to notify the printer of the completion of jam removal.

#### 4.4.6 Paper Jam — Duplexer

This message is relevant to the FS-C8008DN.

The paper jammed inside the duplexer drawer. Clear the jam in the following locations:

- Upper cover
- Lower cover

- 1 Open the duplexer drawer towards you.
- 2 First, open the upper plastic cover of the duplexer drawer to remove the jammed paper under the cover.

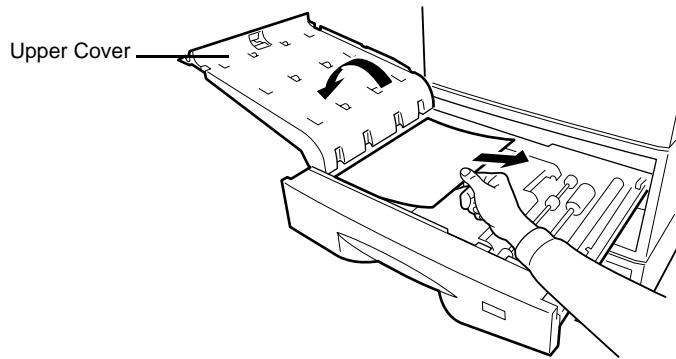


Figure 4-5

- 3 Then open the lower plastic cover of the duplexer drawer to remove the jammed paper under the roller.

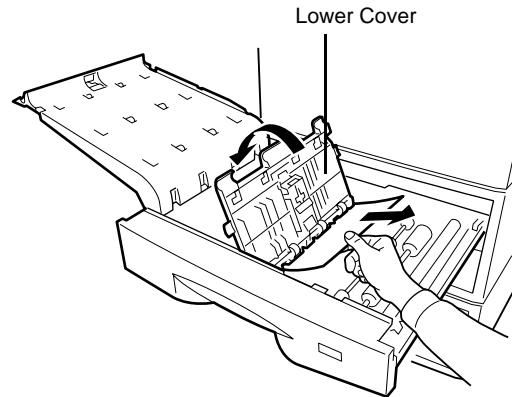


Figure 4-6

- 4 When the jammed paper sheets are removed, close both covers of the duplexer. Close the duplexer drawer completely.

#### 4.4.7 Paper Jam — Paper Transfer Unit

The paper jammed inside the paper transfer unit. After checking and clearing the jam in the paper transfer unit, also check the fuser unit and the primary transfer unit. Clear any paper jams in these components.

- 1 Open the front cover.

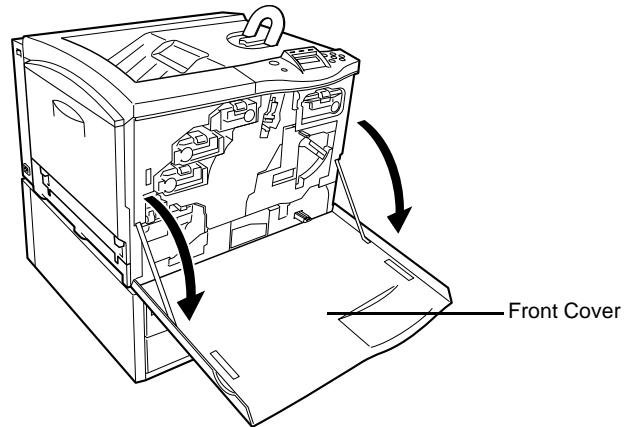


Figure 4-7

- 2 Grasp the handle at the end of the paper transfer unit and pull the unit out completely.

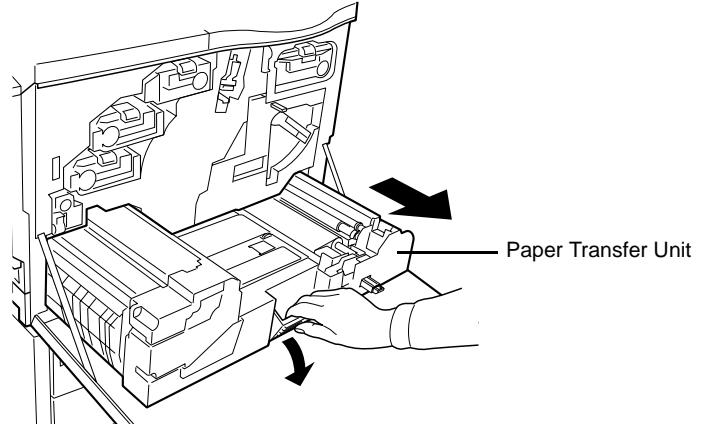


Figure 4-8



Be careful not to touch the transfer belt (brown) when removing jammed paper as this may adversely affect print quality.

3 Swing the green-colored lever to the right. Remove the jammed paper, if any, inside the cover.

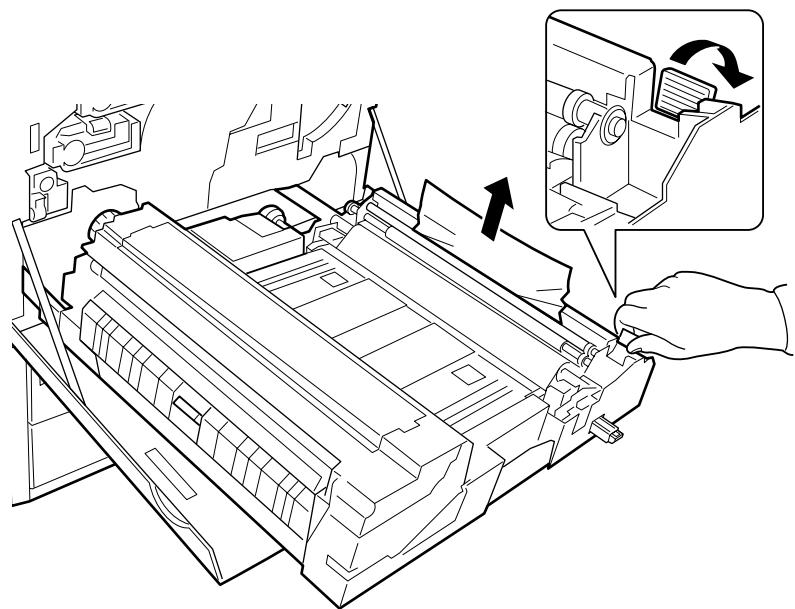


Figure 4-9

4 If there is jammed paper on the rubber belts (black) in the middle of the paper transfer unit, remove the paper.

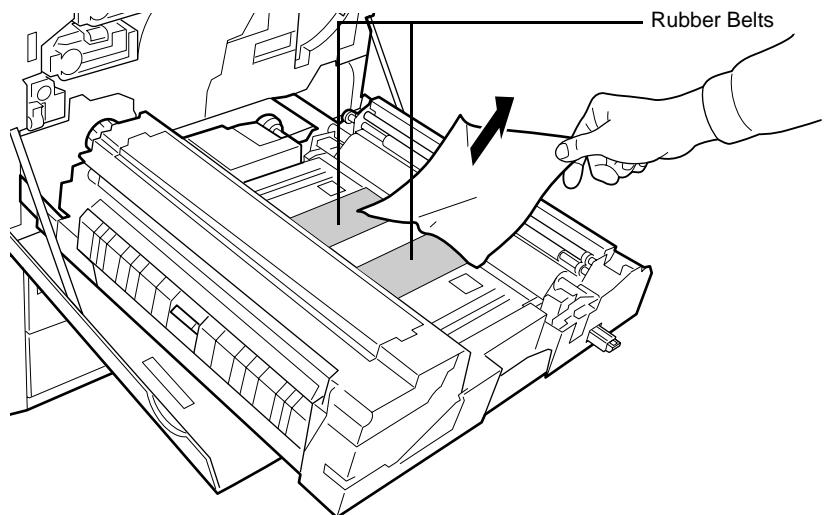


Figure 4-10

5 If the paper is jammed in the fuser unit, open the fuser access cover by pressing the green-colored lock lever.

 **The fuser unit is hot. Wait for a while until the fuser unit cools down.**  
**Caution**

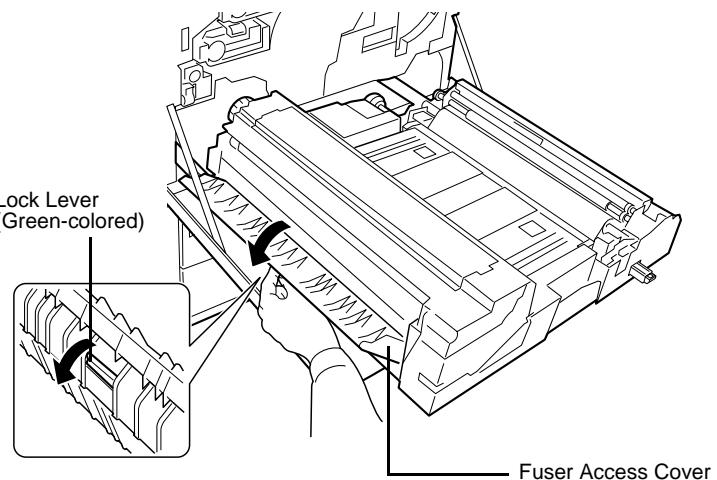


Figure 4-11

6 Open the fuser top cover. Remove the jammed paper.

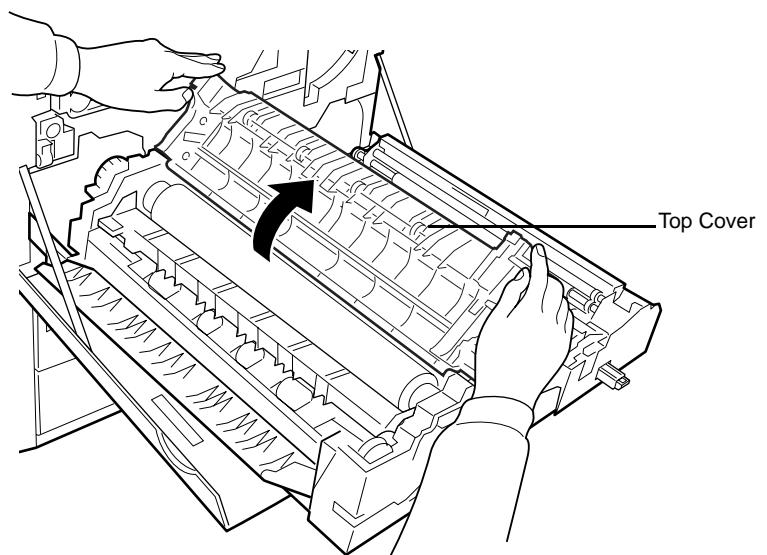


Figure 4-12

7 If the paper is hard to remove, raise the sub-cover by grasping the clip marked as **A** on the rear side while removing the paper.

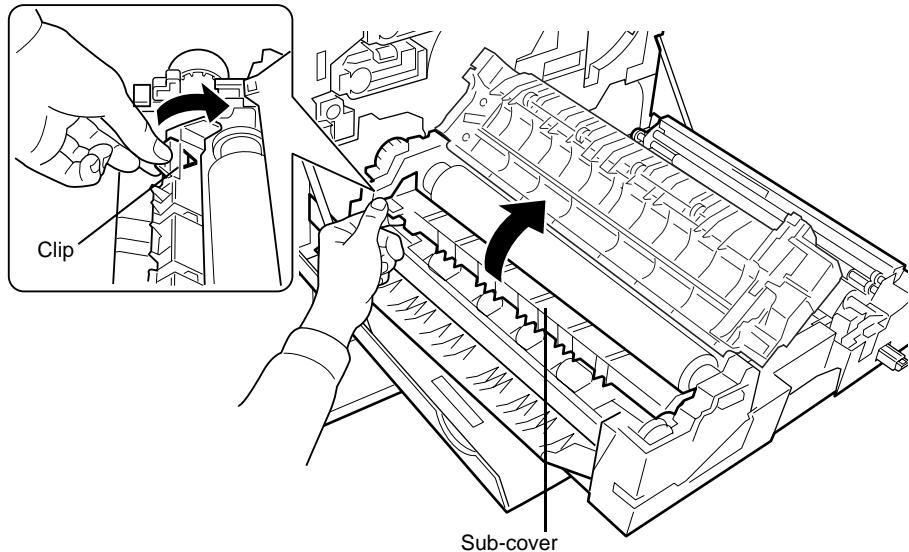


Figure 4-13

8 If the paper winds around the fuser roller, turn the wheel on the left-hand side of the fuser unit toward you. The jammed paper will be driven out. Remove the jammed paper.

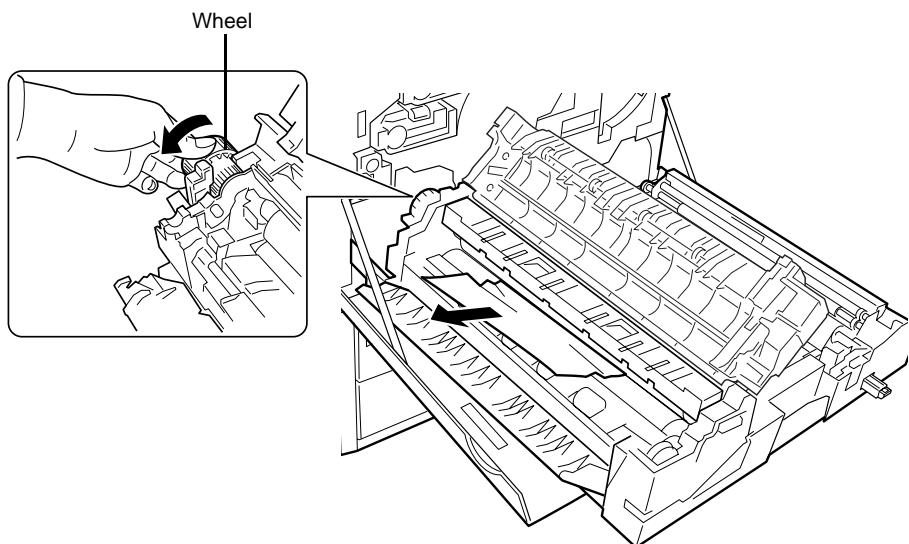


Figure 4-14



Rotate the wheel only in the direction illustrated in the diagram.

9 Set the green lever on the front of the primary transfer unit clockwise to the position of six o'clock (usually this lever is in a position of four o'clock). This unlocks the primary transfer unit.

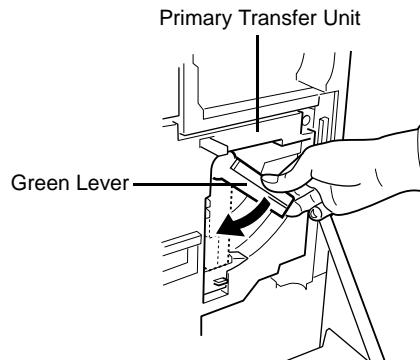


Figure 4-15

10 Grasp the handle at the end of the primary transfer unit and pull the unit out.

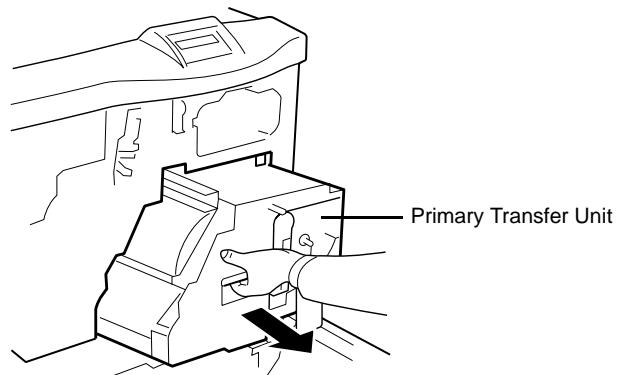


Figure 4-16

11 Turn the wheel (with gear teeth) on the right-hand side of the primary transfer unit away from you. The primary transfer unit will turn at the same time. Remove the jammed paper.

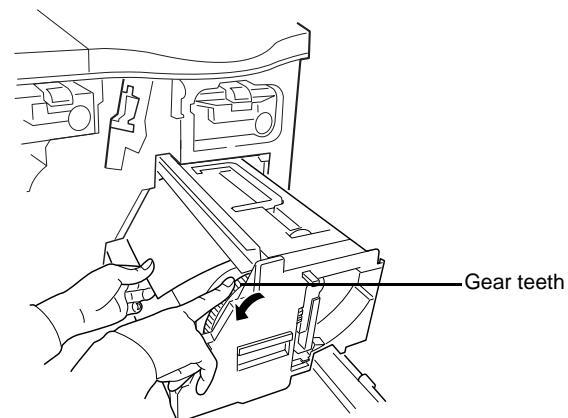
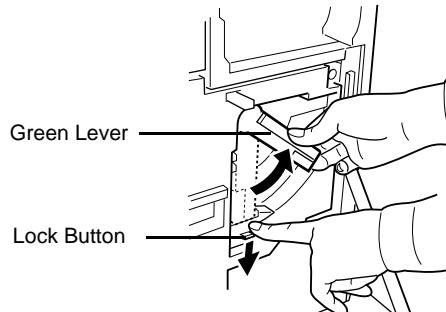


Figure 4-17



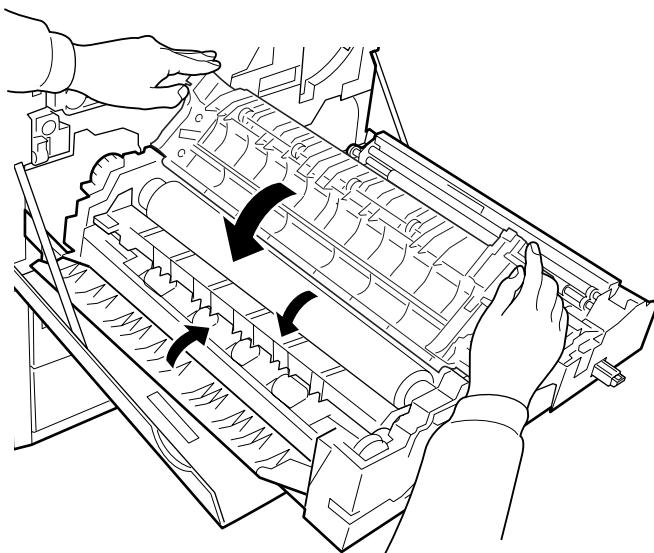
Use care not to touch the drum component of the primary transfer unit.

**12** Push the primary transfer unit back in. To do this, lower the lock button close to the bottom end of the lever to unlock the lever. Set the lever (in the position of six o'clock) back to the original (four o'clock) position. See the figure below.



**Figure 4-18**

**13** Close the sub-cover, the top cover, and the access cover to the fuser unit, and push the fuser unit back into the printer.



**Figure 4-19**

**14** Close the front cover.

#### 4.4.8 Paper Jam — Left Cover

The paper jammed in the face-up tray. After checking and clearing the jam in the face-up tray, also check the left cover for the face-up tray. Clear any paper jams in these components.

- 1 Open the left cover for the face-up tray.

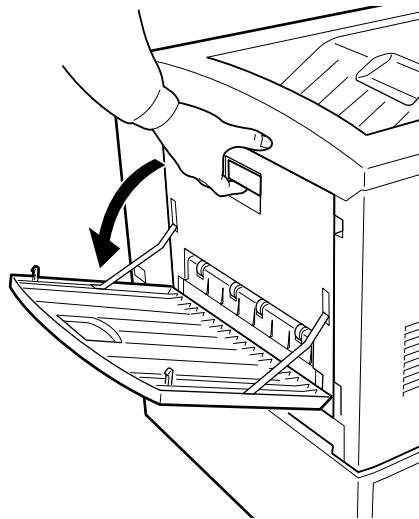


Figure 4-20

- 2 Remove the jammed paper gently. If the paper is stuck under the roller, grasp the green-colored knob and rotate the roller in the direction indicated in the diagram so that the paper is driven out.

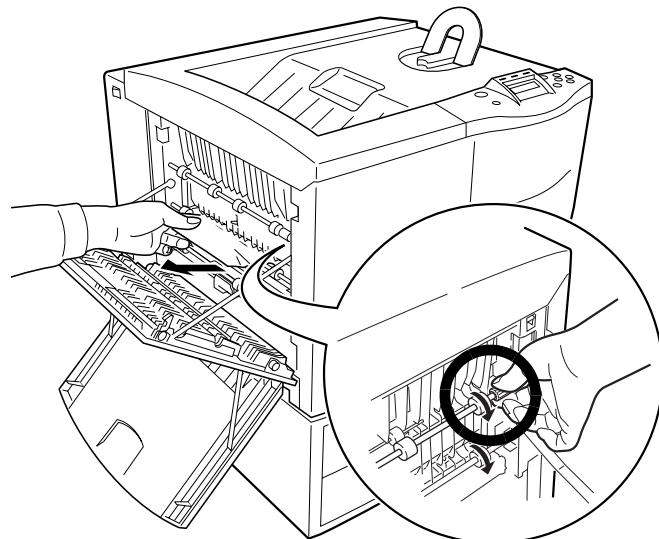


Figure 4-21

If the paper does not go easily, refer to [Section 4.4.7 Paper Jam — Paper Transfer Unit on page 4-17](#).

- 3 Close the left cover. Close the face-up tray.

#### 4.4.9 Paper Jam — Option Stacker/Finisher/Sorter

The bulk stacker, document finisher, and sorter are optional equipment. When this message is displayed, refer to the appropriate documentation for the option attached with the printer.

# Chapter 5 Maintenance

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This chapter describes basic maintenance tasks you can perform on the printer. You can replace the following component according to the printer's display:

- TK-800 C/M/Y/K Toner Kits
- Waste Toner Box

Also, the following parts need periodic cleaning:

- Paper Transfer Unit
- Main Charger Unit

## 5.1 Toner Container Replacement

### 5.1.1 Frequency of toner container replacement

The life of the toner containers depends on the amount of toner required to accomplish your printing jobs. When 5 % coverage (a typical business document) of individual toner colors is assumed for A4 or letter size paper in landscape orientation:

- The black toner container lasts an average of 25,000 monochrome pages.
- The cyan, magenta, and yellow toner containers last an average of 10,000 color images.

You can print a status page to check how much toner remains in the toner container. For details, see [Chapter 3 Using the Operator Panel, section 3.3.2 Printing a Status Page on page 3-17](#). The Toner Gauge section on the status page shows a progress bar for each color, which roughly represents how much toner is left in the toner container.

#### Starter Toner Containers

The toner containers packed with the new printer are starter toner containers. The black starter toner container lasts an average of 12,500 monochrome pages. The cyan, magenta, and yellow starter toner containers last an average of 5,000 color images for each.

#### Toner Kits

It is strongly recommended to use the new Kyocera Mita TK-800 Toner Kit supplied from Kyocera Mita to prevent printer troubles and ensure a long printer life.

The TK-800 Toner Kits are supplied in each of the following four colors. The letter following TK-800 describes the color of toner included in the container as follows:

|                |         |
|----------------|---------|
| <b>TK-800C</b> | Cyan    |
| <b>TK-800M</b> | Magenta |
| <b>TK-800Y</b> | Yellow  |
| <b>TK-800K</b> | Black   |

A new TK-800 toner kit for each color contains the following items:

- Toner Container
- Cleaning cloth
- Grid cleaner for main charger cleaning
- Plastic waste bags for old toner container and old waste toner box
- Waste toner box
- Installation Guide



**Do not remove the toner container from the carton until you are ready to install it in the printer.**

### 5.1.2 Understanding Messages Requesting Toner Container Replacement

The printer displays messages for individual colors at two stages of toner usage. This message is automatically alternated with the other printer message (such as Ready):

- When the printer becomes low on toner, for example in the cyan container, the printer displays the message Toner low C, M, Y, K as the first caution. Note the replacement is not always necessary at this stage.
- If you ignore the above message and continue printing, the printer displays the message Replace Toner — just before the toner is used up. The toner container must be replaced immediately. Clean the separate charger wires, etc. After the cleaning is finished, however, the message does not automatically change to Ready. To restart printing, you must press the **GO** key and make the printer ready.

In either case, to replace the toner container, see [Section 5.1 Toner Container Replacement on page 5-2](#).

### 5.1.3 Replacing the Toner Container



**During toner container replacement, temporarily put storage media and computer supplies (such as floppy disks) away from around the toner container. This is to avoid damaging media by the magnetism of toner.**

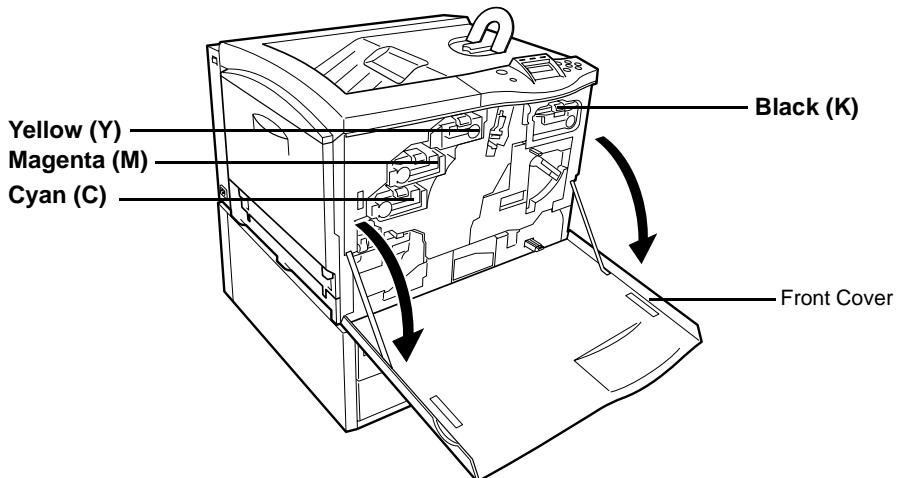
This section explains how to replace the toner containers. When replacing the toner container of any color, always replace the waste toner box at the same time. If this box is full, the printer may be damaged or contaminated by the waste toner that may spill over the box.



**You do not have to turn printer power off before starting the replacement. Any data that may be under printing process in the printer will be deleted if you turn printer power off.**

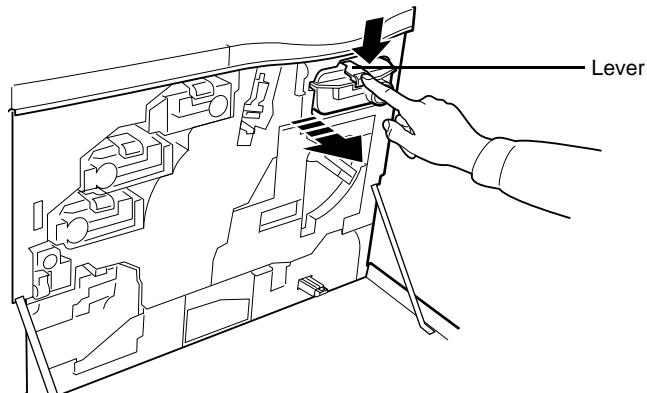
To replace the toner container, first make sure of the color of the toner container requiring replacement. In this example, it is assumed that you are replacing the black toner container.

- 1 Open the front cover.



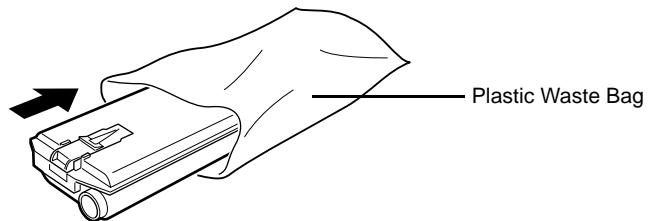
**Figure 5-1**

- 2 While lowering the lever (blue-colored) at the end of the toner container to unlock the container, pull the black toner container out.



**Figure 5-2**

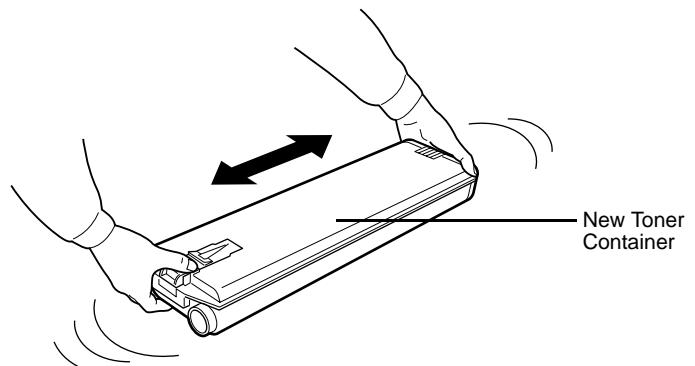
**3** Put the old toner container in the plastic waste bag (contained in the toner kit) and discard it later according to the local code or regulations for waste disposal.



**Figure 5-3**

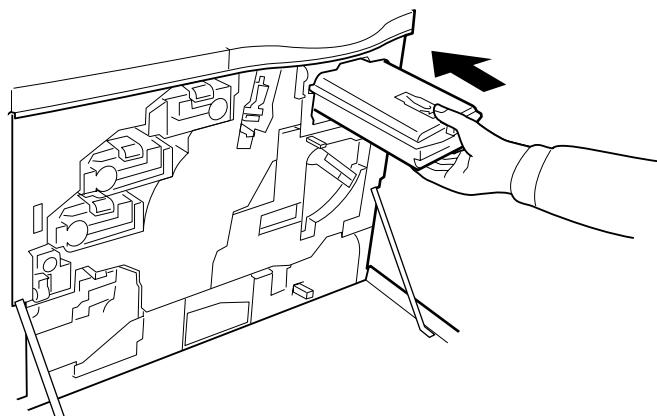
**4** Take the new toner container out of the toner kit.

**5** To loosen and redistribute the toner inside, hold the container and shake the container back and forth at least 5 times.



**Figure 5-4**

**6** Insert the new toner container all the way in. The container is locked automatically when it is properly seated.



**Figure 5-5**

To replace the other color toner container, use the same procedure above.  
Proceed to the next section and replace the waste toner box.

## 5.2 Replacing the Waste Toner Box

Replace the waste toner box each time you replace the toner container. A new waste toner box is included with the toner kit. The printer will not operate without replacing the waste toner box.

- 1 Pull the paper transfer unit all the way out. Slowly remove the waste toner box. Do not place the removed box upside down.

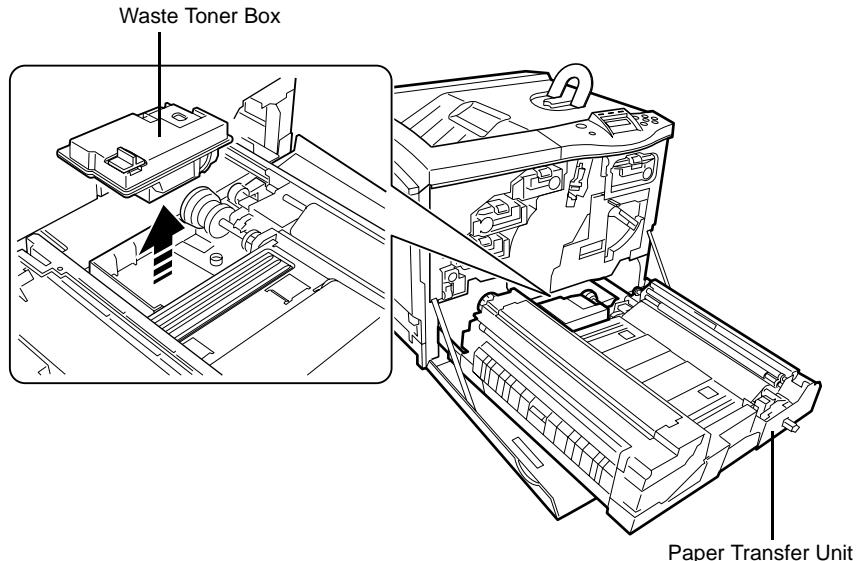


Figure 5-6

- 2 The old waste toner box has a cap. Remove the cap (black) on the top of the box and put the cap onto the opening as shown below. This is to prevent the toner from spilling.

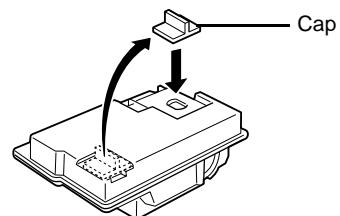


Figure 5-7

- 3 Put the old waste toner box in the plastic waste bag (contained in the toner kit) and discard it later according to the local code or regulations for waste disposal.

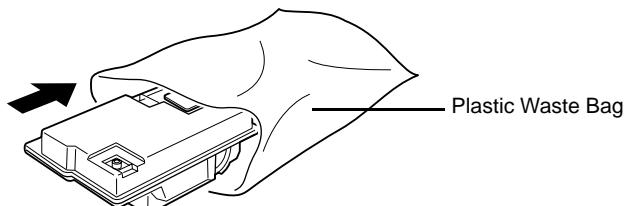


Figure 5-8

4 Insert the new waste toner box (contained in the toner kit) upright until it snaps into place.

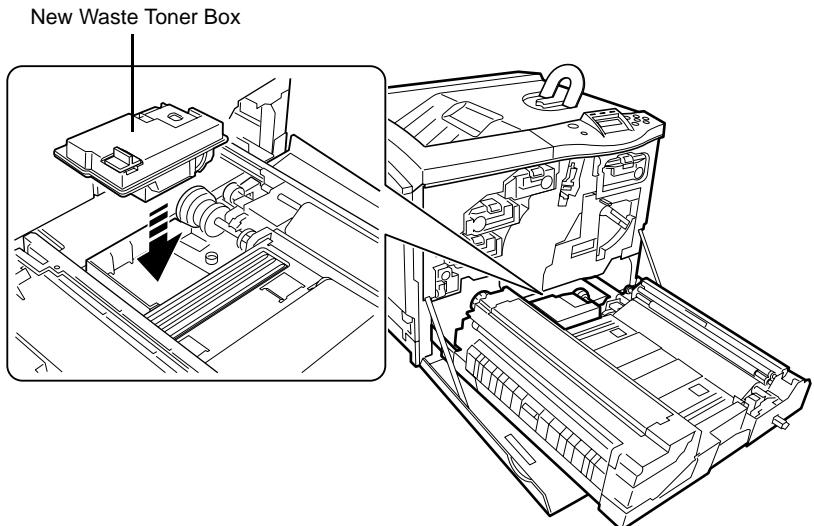


Figure 5-9



**Do not put the lid on the opening of a new waste toner box. This could cause damage to the printer.**

After replacing the toner containers and the waste toner box, clean the paper transfer unit and the main charger unit. For instructions, see *Section 5.3 Cleaning the Printer on page 5-8*.

## 5.3 Cleaning the Printer

As discussed earlier, the following parts must be cleaned each time the toner container and waste toner box are replaced:

- Paper transfer unit
- Main charger unit

In addition to this, it is recommended that these parts are cleaned periodically at least once a month.

### 5.3.1 Cleaning the Paper Transfer Unit

Print problems such as soiling of the reverse side of printed pages may occur if the paper transfer unit becomes dirty. To clean the paper transfer unit, the following tool must be used:

- Cleaning cloth (included in the toner kit)

Clean the paper transfer unit according to the procedure that follows:

- 1 Open the front cover.

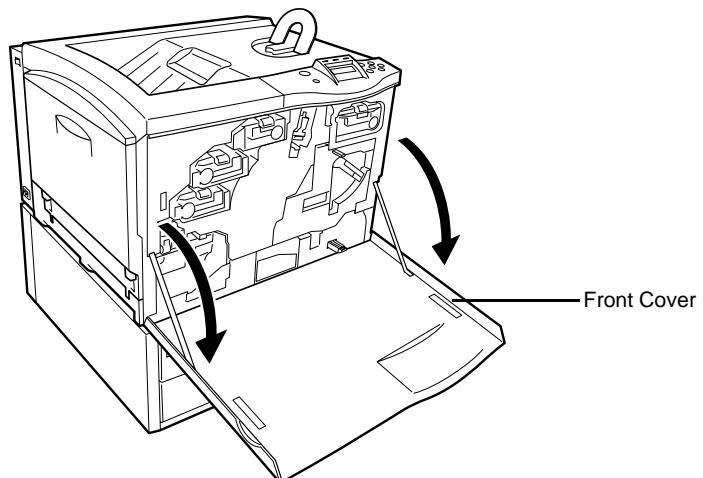


Figure 5-10

2 Grasp handle on the paper transfer unit and slowly pull it out.

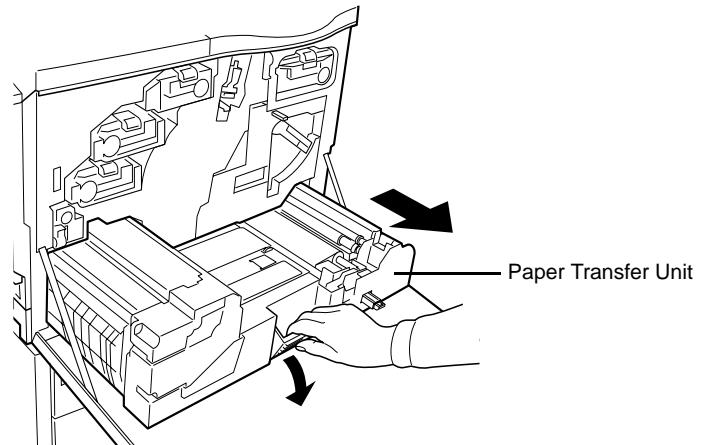


Figure 5-11

3 Clean the registration roller (metal) using the cleaning cloth.



Note

Be careful not to touch the transfer belt (brown) during cleaning as this may adversely affect print quality.

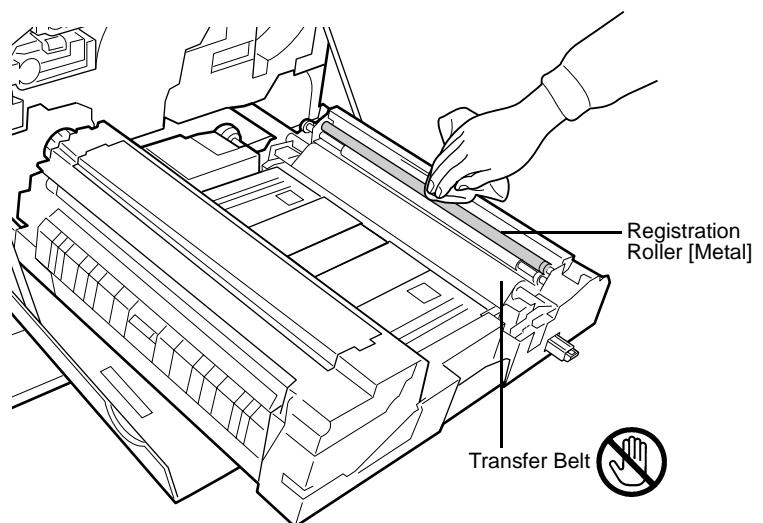


Figure 5-12

4 Clean the rubber belts (black) using the cleaning cloth.

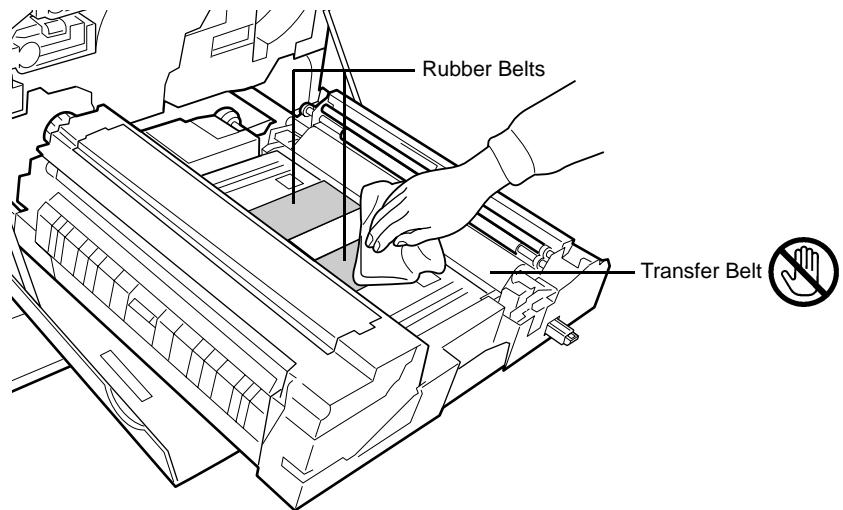


Figure 5-13

5 Push the paper transfer unit back in completely.

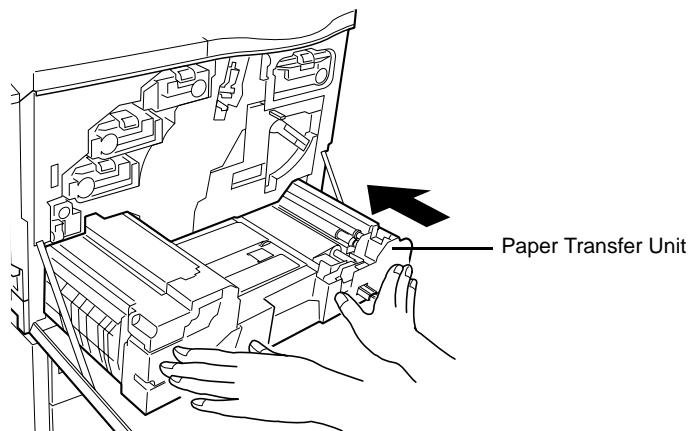


Figure 5-14

6 Close the front cover.

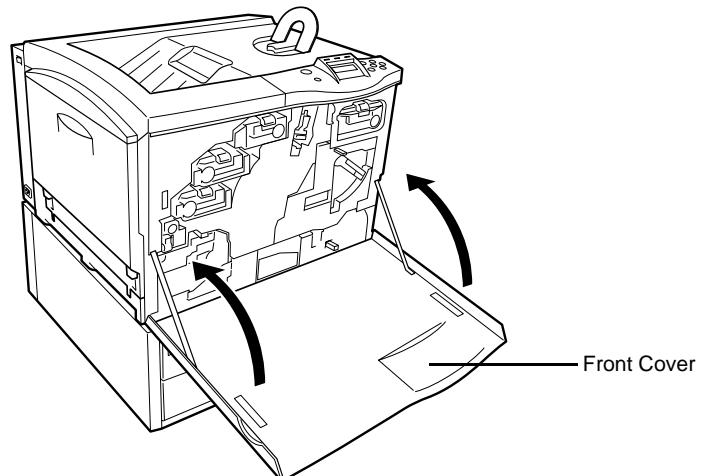


Figure 5-15

### 5.3.2 Cleaning the Main Charger Unit

The main charger unit needs to be cleaned periodically as it gets contaminated with dioxide after a long usage. The main charger is comprised of two main parts — the wire and the grid — which should be cleaned separately as instructed below.

To clean the main charger unit, proceed as follows:

- 1 Open the front cover.
- 2 First we clean the main charger wire. Grasp the tab of the cleaning knob (green-colored). Gently pull the cleaning bar out and push it back in. Repeat this 3 to 5 times.

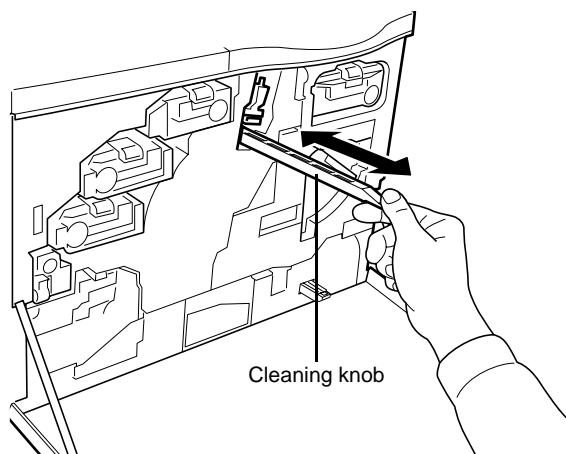


Figure 5-16

- 3 Next, we clean the main charger grid. Take the grid cleaner out of the toner kit. Take the grid cleaner out of the protective bag and remove the cap.

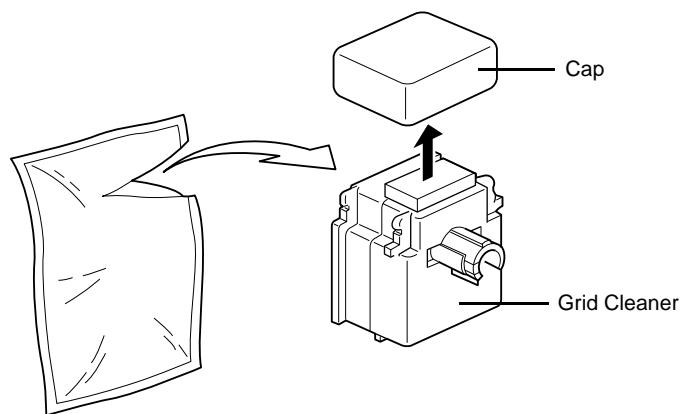


Figure 5-17



**The pad of the grid cleaner contains water. Clean the grid quickly so that the pad may not dry off.**

Note

4 Attach the grid cleaner to the printer with the pad facing up.

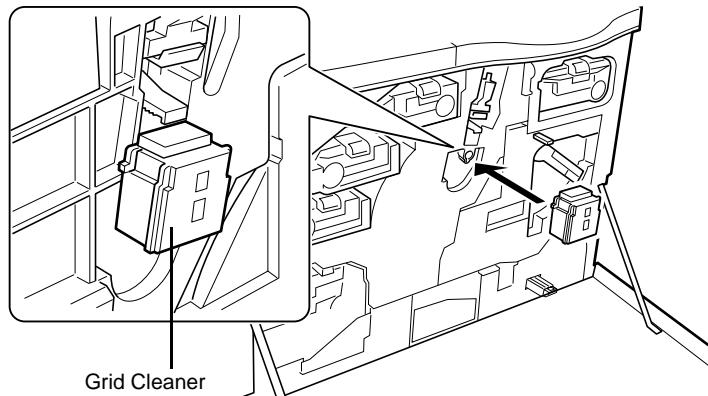


Figure 5-18

5 While pushing the main charger unit lock lever upward as shown in [Figure 5-19](#), slightly lift the main charger unit, and gently pull the gray-colored main charger handle out and push it back in. Repeat this 2 to 3 times. These movements clean the grid.

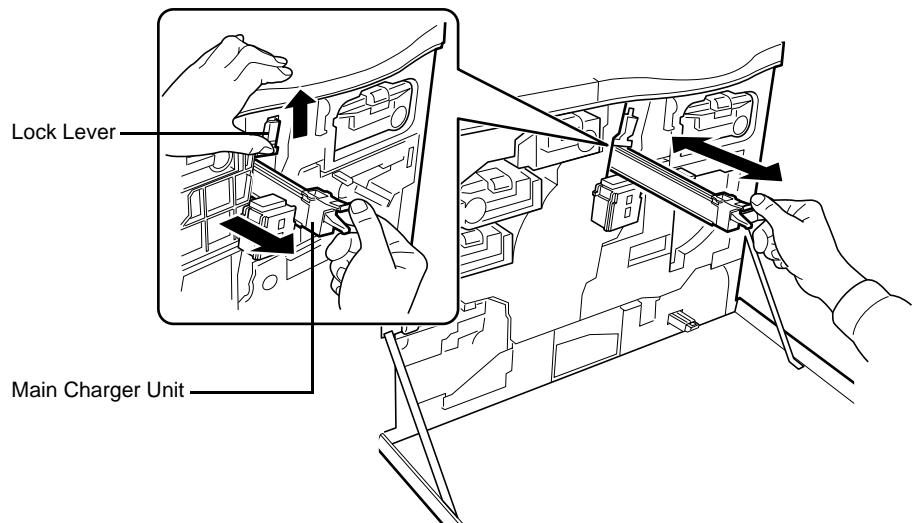


Figure 5-19

6 After cleaning is finished, remove the grid cleaner from the printer and discard it. The grid cleaner cannot be reused. Close the front cover.



If the front cover does not fully close, although the printer shows Ready, open the front cover and push the main charger unit until it is fully inserted in the printer.

# Appendix A Options

---

Your printer can be installed with various options indicated in this appendix.

You can select the options that will satisfy your printing requirements.

For availability of the options, consult your Kyocera Mita dealer.



**Caution**

**CA-31B is a caster kit to prevent the FS-C8008 printer from tipping over because of weight in the printer and the upper paper drawers. To prevent the FS-C8008 printer from tipping over, the optional CA-31B caster kit must be installed when the printer is installed with more than one paper feeder or a duplex unit. For detailed information on the CA-31B caster kit, see [page A-11](#).**

## A.1 Options

The FS-C8008 series printers have the following options available. For instructions on installing individual options, refer to the documentation included with the option. Some options are explained in the following sections.

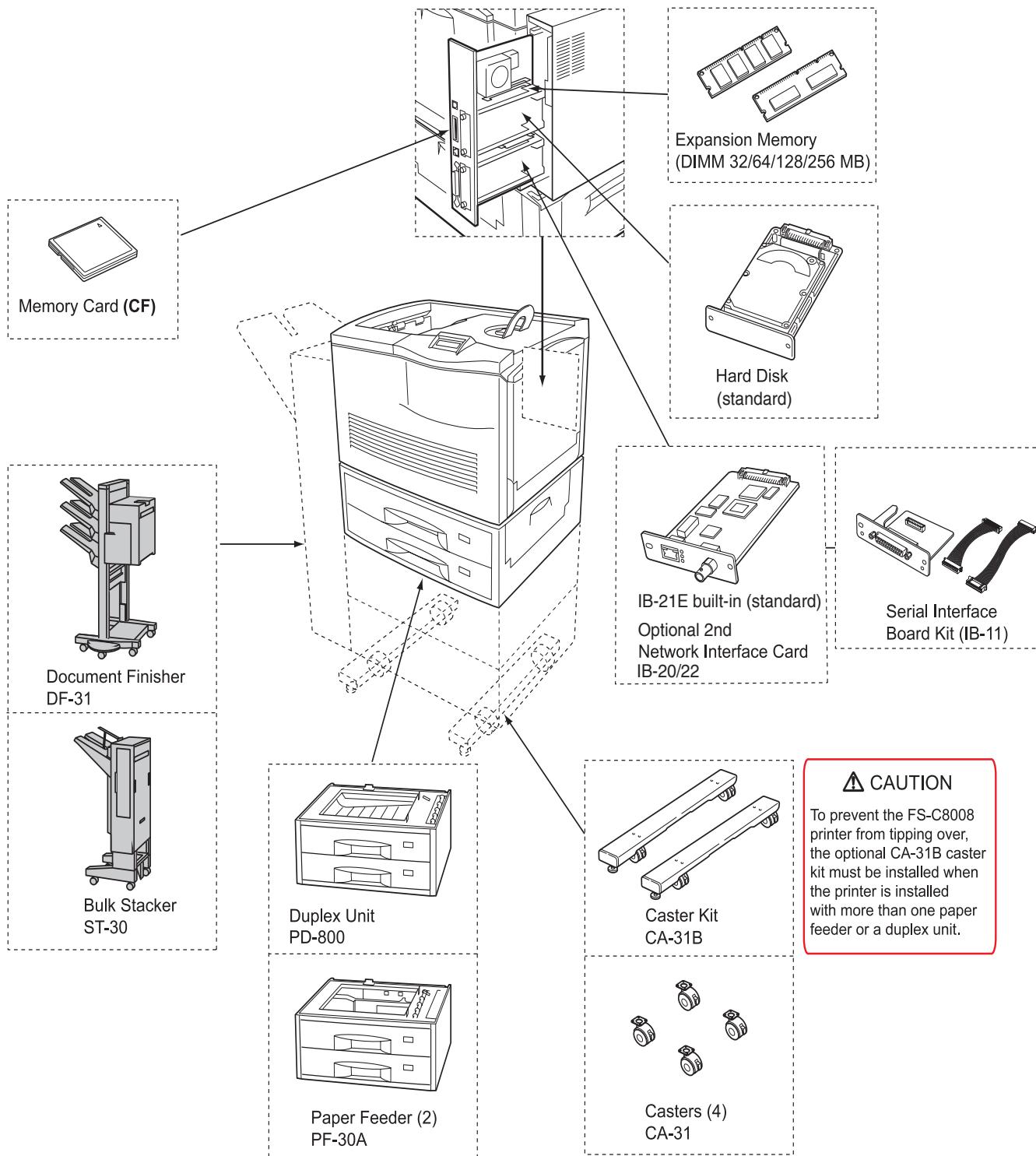


Figure A-1

## A.2 Expansion Memory Modules

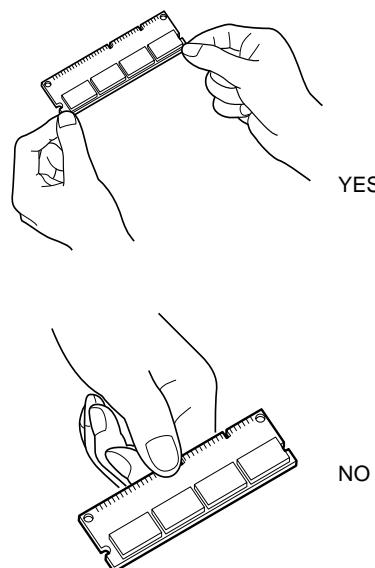
To expand the printer memory for more complex print jobs and faster print speed, you can plug in optional memory modules (dual in line memory modules) in two memory slots provided on the printer main controller board. You can select additional memory modules from 32, 64, 128, or 256 MB (the maximum memory size is 640 MB, including the base 128 MB memory).



**Only an authorized Kyocera Mita dealer should install the expansion memory. Kyocera Mita shall not be liable for any damages caused by improper installation of expansion memory.**

### Precautions on handling the printer's main controller board and memory modules

- To protect electronic parts, discharge static electricity from your body by touching a water pipe (faucet) or other large metal object before handling the memory modules. Or, wear an antistatic wrist strap, if possible, when you install the memory modules.
- Always hold the main controller board or a memory module by its edges as shown below to avoid damaging electronic parts.



**Figure A-2**

### A.2.1 Installing the Memory Modules

- 1 Power off the printer and unplug the printer power cord.
- 2 Unscrew two screws at the back of the main controller board.

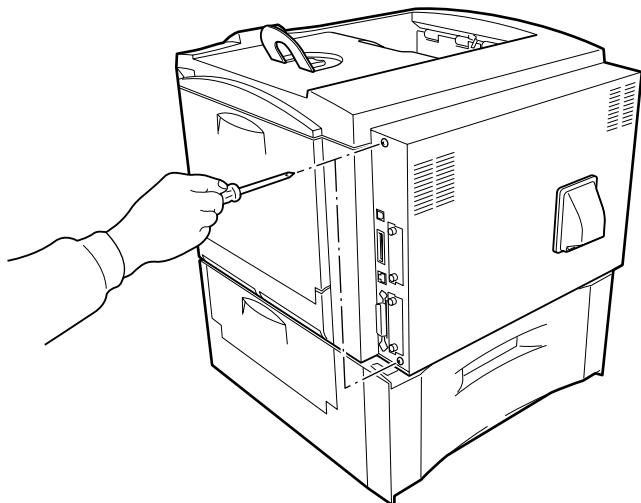


Figure A-3

- 3 Pull out the main controller board gently.

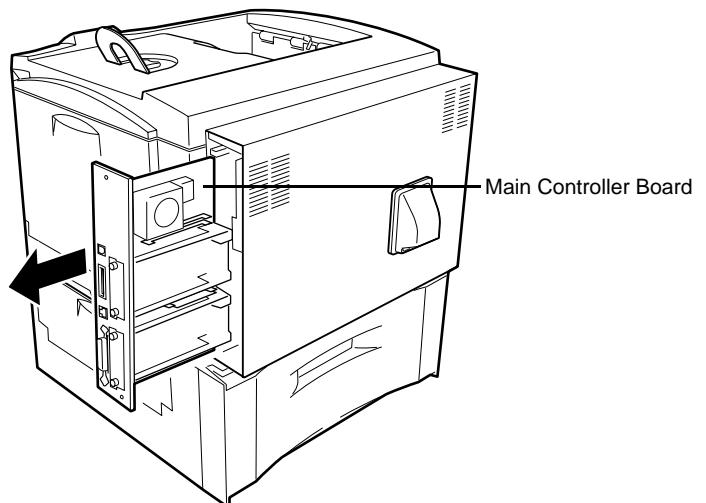
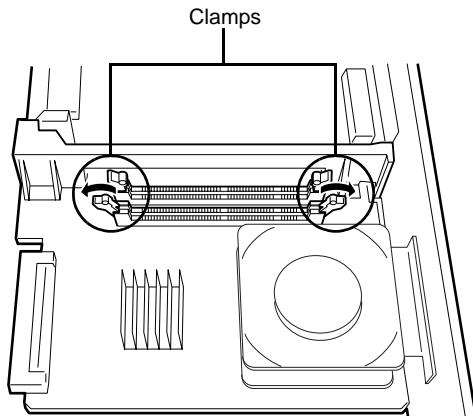


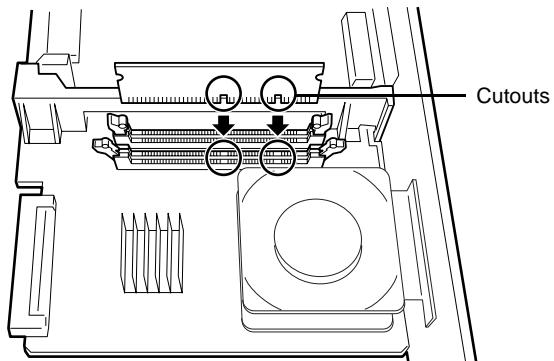
Figure A-4

**4** Push out the clamps on both ends of the memory socket on the main controller board.



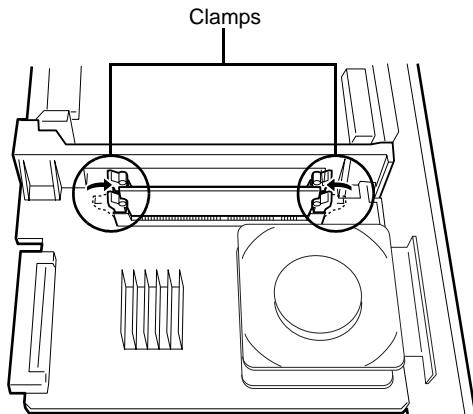
**Figure A-5**

**5** Remove the memory module from its package. Aligning the cutouts of the memory module with the matching keys of the socket, carefully plug the memory module into the memory socket until it clicks in place.



**Figure A-6**

**6** Push down the two socket clamps to secure the memory modules.



**Figure A-7**

**7** After you finish installing the memory modules, reinstall the main controller board and fasten it with screws.

### Removing a Memory Module

To remove a memory module, remove the main controller board, then carefully push out the two socket clamps. Ease the memory module out of the socket to remove.

### Testing the expanded memory

To verify that the memory modules are working properly, test them by printing a status page. To print a status page:

- 1 Make sure the printer is switched off. Plug in the printer power cord into an AC outlet and power on the printer.
- 2 Wait until the printer becomes Ready. When ready, press the  **MENU** key.
- 3 Press the  $\nabla$  key repeatedly until the message display shows Print Status Page.
- 4 Press the  **ENTER** key twice. A status page is printed.

Check the **Memory** field in the upper right area. It shows information about the memory modules installed in memory slots 1 and 2. If you see an increase in the total memory size, the installation is successful. (Note that the printer is shipped with 128 MB of base memory.)

## A.3 General Description of Options

### A.3.1 Memory Card

The printer is equipped with a slot for a memory card with the maximum size of 256 MB. A memory card is useful for storing fonts, macros, and overlays. You can use the **IC Link for Windows** utility to download fonts, etc., to a flash memory card. This software is included in the CD-ROM supplied with the printer.

#### Reading Font from the Memory Card

Once inserted in the printer's slot, the contents of the memory card can be read from the control panel or automatically when you power on or reset the printer. To manually read data in the memory card, see *Chapter 3 Using the Operator Panel, section 3.9.1 Using the Memory Card on page 3-60*.



- **Before inserting a memory card in the printer, make sure that the printer is switched off.**
- **This printer remains energized for 30 minutes even after it is powered off for internal cooling. Unplug the power cord before inserting the memory card in the printer. Power on the printer immediately after you finish inserting the memory card.**

Insert the memory card in the memory card slot.

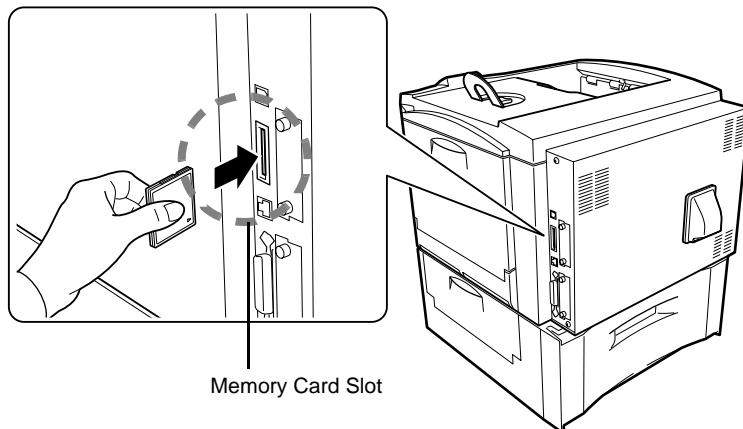


Figure A-8

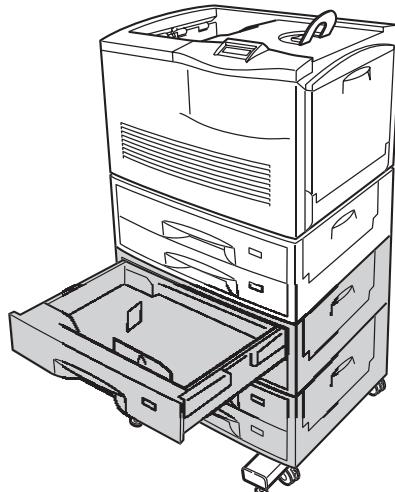
### A.3.2 PF-30A Paper Feeder

The PF-30A paper feeder has two paper cassettes allowing a large number of sheets of paper to be fed continuously for printing. The paper cassette can hold up to approximately 500 sheets of ISO A3, ISO A4, ISO A5, JIS B4, JIS B5, ledger, letter, and legal size (80 g/m<sup>2</sup>) paper. This feeder is attached at the bottom of the printer as shown below.



**To prevent the printer from tipping over because of weight in the printer and the upper paper drawers, the CA-31B caster kit must be installed at the bottom-most paper feeder, when an optional paper feeder or duplex unit is installed with the printer.**

For detailed information on installing the paper feeder, see the manual supplied with the paper feeder.



**Figure A-9**

### A.3.3 PD-800 Duplex Unit

This duplex unit is provided as a standard accessory for the FS-C8008DN printer.

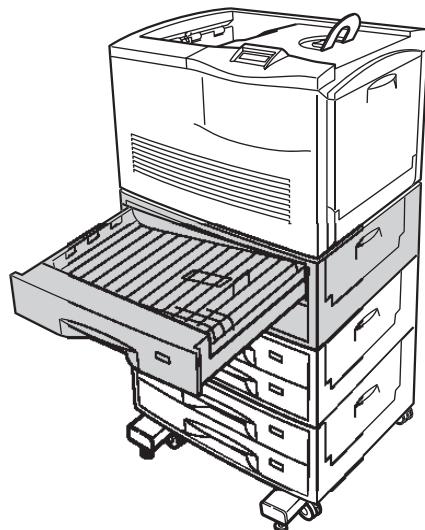
The PD-800 is similar to the PF-30A paper feeder but has a duplexer (required for printing on both sides of a sheet) in place of the first paper cassette. Printing on both sides can be performed using ISO A3, ISO A4, ISO A5, JIS B4, JIS B5, ledger, letter, and legal sized paper.

The paper cassette can hold up to approximately 500 sheets of ISO A3, ISO A4, ISO A5, JIS B4, JIS B5, ledger, letter, and legal size (80 g/m<sup>2</sup>) paper. This unit is attached at the bottom of the printer as shown below.



**To prevent the printer from tipping over because of weight in the printer and the upper paper drawers, the CA-31B caster kit must be installed at the bottom-most paper feeder, when an optional paper feeder or duplex unit is installed with the printer.**

For detailed information on installing the duplex unit, see the manual supplied with the duplex unit.

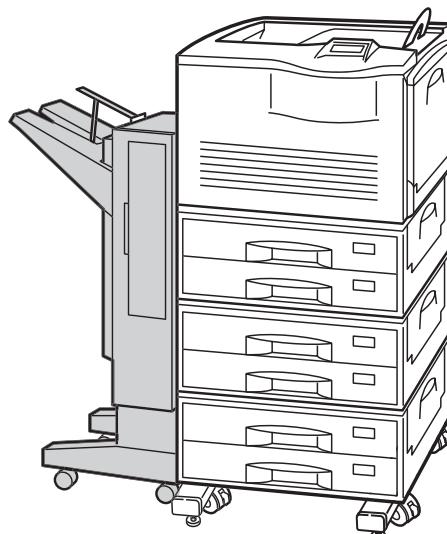


**Figure A-10**

### A.3.5 ST-30 Bulk Stacker

This bulk stacker can hold up to 3,000 copies for a continuous, voluminous output. It incorporates the jog feature to avoid loss or mishandling of printouts by staggering and dividing the stacked printed sheets.

The bulk stacker is attached to the left side of the printer as shown below. Use the supplied dedicated bracket to attach the bulk stacker to the printer.



**Figure A-12**

### A.3.6 DF-31 Document Finisher

This multipurpose device is used for organizing printouts. The device can staple printed sheets by electronic means and provides three output trays for stacking printed sheets after dividing and staggering them according to print jobs.

The document finisher is attached to the left side of the printer as shown below. Use the supplied dedicated bracket to attach the document finisher to the printer.

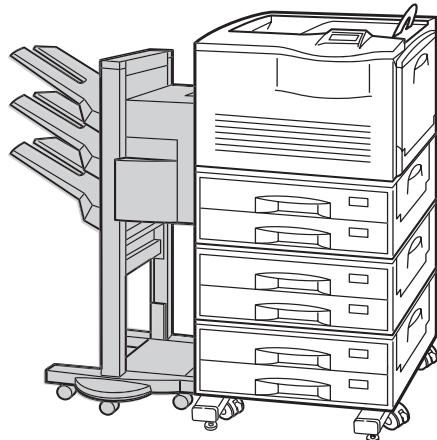


Figure A-13

### A.3.7 CA-31 Casters and CA-31B Caster Kit

These casters are mounted at the bottom of the bottom feeder for moving or fixing the printer. The CA-31 is the regular casters that may be used for the standalone FS-C8008 series printers, including only the standard PF-30A paper feeder or PD-800 duplex unit. The CA-31B is the topple-resistant, heavy-duty caster kit. The CA-31B must be installed when the printer is installed with one or more extra paper feeders.



Caution

**The manufacturer is not liable for any damages or injuries that may be caused when the CA-31B is not used to support the printer having more than one paper feeders.**



Note

**If the floor is delicate against casters, when this product is moved after installation, the floor material may be damaged.**

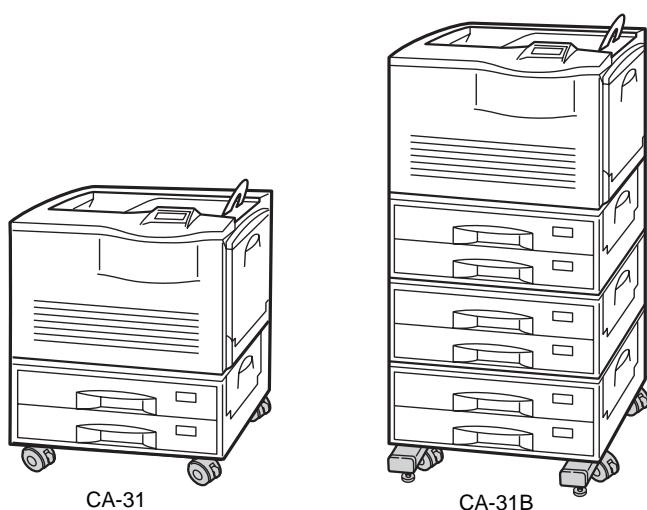


Figure A-14

### A.3.8 Hard Disk

The hard disk is used for saving print data. This is advantageous when printing multiple sets of copies, as high-speed printing is possible using the electronic sorting function. The hard disk is further required in order to use the e-MPS function. You can use the **KM-NET Printer Disk Manager** utility to keep track of the stored data. This software is included in the CD-ROM supplied with the printer.

The hard disk is installed in the **HDD** (upper) slot provided for it at the back of the printer as shown below.

The hard disk must be formatted before the initial use. To format the hard disk, use the printer operator panel or the **KM-NET Printer Disk Manager**. Before you install the hard disk in the printer, power off the printer and unplug the power cord.

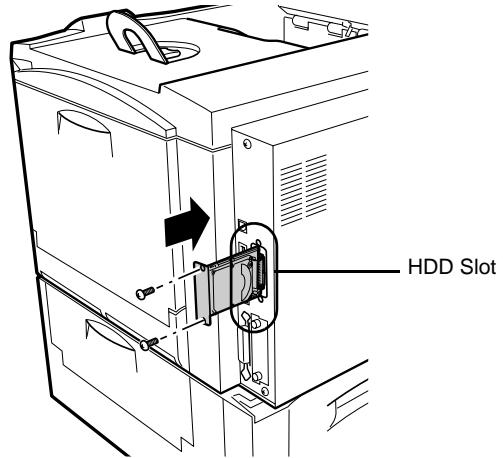


Figure A-15



- **Do not install the hard disk in the OPT (lower) slot.**
- **This printer remains energized for 30 minutes even after it is powered off for internal cooling. Unplug the power cord before installing the hard disk in the printer. Power on the printer immediately after you finish the hard disk installation.**

### A.3.9 IB-20/IB-21E/IB-22 Network Interface Cards

Along with the standard for the network interface on the printer, the network interface card supports TCP/IP, IPX/SPX, NetBEUI and EtherTalk protocols, so that the printer can be used on network environments including Windows, Macintosh, UNIX, NetWare, etc. Install the network interface card in the **OPT** slot located on the lower right side of the printer rear as shown below.

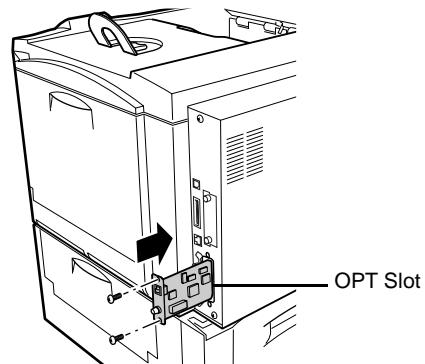


Figure A-16

| Network interface card | Network connections          |
|------------------------|------------------------------|
| IB-20                  | 10Base-T/100Base-TX/10Base-2 |
| IB-21E                 | 10Base-T/100Base-TX          |
| IB-22                  | IEEE802.11b (Wireless)       |

Table A-1



**This printer remains energized for 30 minutes even after it is powered off due to internal cooling. Unplug the power cord before installing the network interface card to the printer. Power on the printer immediately after you finish the network interface card installation.**

# Appendix B Computer Interface

---

This appendix explains the signals used in the printer's parallel, USB, and serial (option) interfaces. It also lists pin assignments, signal functions, timings, connector specifications, and voltage levels.

This appendix explains the following topics:

- Parallel Interface
- USB Interface
- Serial Interface (Option)

## B.1 Parallel Interface

### B.1.1 Communication Modes

The printer provides high-speed data transmission on a parallel interface. You can select the parallel interface communication mode from the operation panel. To change communication mode, see *Chapter 3 Using the Operator Panel, section 3.5.1 Changing Parallel Interface Mode on page 3-34*.



**Use a parallel interface cable that complies with the IEEE 1284 standard.**

You can choose from four communication modes:

| Communication Mode | Reception      | Transmission |
|--------------------|----------------|--------------|
| Auto (default)     | High-speed/ECP | Nibble/ECP   |
| Nibble             | High-speed     | Nibble       |
| High-speed         | High-speed     | —            |
| Normal             | Normal         | —            |

**Table B-1**

## B.1.2 Interface Signals

Table shows the connector pins and corresponding input and output signals of the parallel interface. Explanation of each signal is also given in the table.

The description in [ ] indicates signal names in Auto mode and Nibble (high) mode (IEEE 1284-compliant). In Auto and Nibble modes, these signals are bidirectional.

| Pin | In or out | Signal                          | Description   |
|-----|-----------|---------------------------------|---|
| 1   | In        | Strobe <sup>†</sup> [nStrobe]   | A negative-going-strobe pulse causes the printer to read and latch the data on the Data 0 [1] to Data 7 [8] signal lines.   |
| 2   | In        | Data 0 [Data 1]                 | These eight signals form one byte of data sent from host computer to printer. Data 7 [8] is the most significant bit.   |
| 3   | In        | Data 1 [Data 2]                 |   |
| 4   | In        | Data 2 [Data 3]                 |   |
| 5   | In        | Data 3 [Data 4]                 |   |
| 6   | In        | Data 4 [Data 5]                 |   |
| 7   | In        | Data 5 [Data 6]                 |   |
| 8   | In        | Data 6 [Data 7]                 |   |
| 9   | In        | Data 7 [Data 8]                 |   |
| 10  | Out       | Acknowledge <sup>†</sup> [nAck] | This negative-going pulse acknowledges the previous character received.   |
| 11  | Out       | Busy [Busy]                     | When this signal is high, the printer is busy. When it is low, the printer is able to receive more data.  |
| 12  | Out       | Paper Empty [PError]            | This signal goes high when the printer runs out of paper. <sup>††</sup>   |
| 13  | Out       | Online (Select) [Select]        | This signal goes high when the printer is online and low when the printer is offline. The signal goes low when you press the <b>GO</b> key to make the printer go off line. <sup>††</sup> |
| 14  | In        | — [nAutoFd]                     | Ignored   |
| 15  | —         | —                               | Not used  |
| 16  | —         | 0 V DC                          |   |
| 17  | —         | Chassis Ground                  |   |
| 18  | —         | +5 V DC                         | This pin is used for the printer's +5 V DC power supply (+5±0.5 V, 400 mA maximum, with fuse)   |
| 19  | —         | Ground return                   |   |
| 20  | —         | Ground return                   |   |
| 21  | —         | Ground return                   |   |
| 22  | —         | Ground return                   |   |
| 23  | —         | Ground return                   |   |
| 24  | —         | Ground return                   |   |
| 25  | —         | Ground return                   |   |
| 26  | —         | Ground return                   |   |
| 27  | —         | Ground return                   |   |
| 28  | —         | Ground return                   |   |
| 29  | —         | Ground return                   |   |

Table B-2

| Pin       | In or out | Signal                      | Description   |
|-----------|-----------|-----------------------------|---|
| <b>30</b> | —         | Ground return               |   |
| <b>31</b> | In        | — [nInit]                   | Ignored   |
| <b>32</b> | Out       | Error <sup>†</sup> [nFault] | When the high-speed parallel line control is on, this line returns an error status. <sup>††</sup> |
| <b>33</b> | —         | —                           | Not used  |
| <b>34</b> | —         | —                           | Not used  |
| <b>35</b> | Out       | Power Ready                 | This signal goes high when the printer is powered on.   |
| <b>36</b> | In        | Select In [nSelect In]      | When this line is high, IEEE1284 mode is enabled.   |

**Table B-2**

<sup>†</sup> Indicates signals that are low active.

<sup>††</sup> The Paper Empty, Online, and Error signals work only after you have enabled them using the O2 parameter of the FRPO command.

## B.2 USB Interface

This printer supports the Full-Speed USB 2.0. USB (Universal Serial Bus) interface specifications and interface signals are as follows.

### B.2.1 Specifications

#### Basic specification

Complies with the Full-Speed USB 2.0.

#### Connectors

Printer: B-type receptacle (female) with upstream port

Cable: B-type plug (male)

#### Cable

Use a shielded cable that complies with USB 2.0 and not longer than 5 meters (16 feet).

#### Transfer Mode

Full speed (max. 12 Mbps)

#### Power Control

Self-power device

### B.2.2 Interface Signals

#### USB Connector Pin Assignment

| Pin | Signal | Description         |
|-----|--------|---------------------|
| 1   | Vbus   | Power supply (+5 V) |
| 2   | D-     | Data transmission   |
| 3   | D+     | Data transmission   |
| 4   | GND    | Signal ground       |
|     | Shell  | Shield              |

Table B-3

## B.3 Serial Interface (Option)

Installing the optional serial interface board kit (IB-11) in the printer enables connection to a computer with an RS-232C standard serial interface.

### B.3.1 Interface Signals

*Table B-4* below shows the pins and corresponding input and output signals of the RS-232C interface connector.

| Pin | In or out | Signal | Description   |
|-----|-----------|--------|---|
| 1   | —         | FG     | Frame Ground. This pin is connected directly to the printer frame.  |
| 2   | Out       | TXD    | Transmit Data. This pin is used to output asynchronous data sent from the printer to the computer. This signal is often used in handshaking.  |
| 3   | In        | RXD    | Receive Data. This pin is used to input serial asynchronous data sent from the computer to the printer.   |
| 4   | Out       | RTS    | Request To Send. This output is always high (above 3 volts).  |
| 5   | In        | CTS    | Clear To Send. Not used.  |
| 6   | In        | DSR    | Data Set Ready. Not used.   |
| 7   | —         | SG     | Signal Ground. This pin is used to establish a common reference level for the voltages of all signals other than Frame Ground.  |
| 20  | Out       | DTR    | Data Terminal Ready. This pin is used to notify the status of the printer buffer (i.e., nearly full or nearly empty) when handshaking is used. The pin goes high (above 3 volts) when the buffer is able to accept more data. |

**Table B-4**

### B.3.2 Interface voltage levels

The voltage levels of the interface signals conform to EIA RS-232C specifications. The voltage level of SPACE is 3 to 15 volts. The voltage level of MARK is -3 to -15 volts. Voltages between -3 and 3 volts are undefined.

## B.4 RS-232C Protocol

### B.4.1 Parameters of the RS-232C Protocol

A protocol is a set of rules followed by various devices to send or receive data. The parameters of the RS-232C protocol are stored in the battery-powered memory of the printer. You can verify these parameters on the status printout as marked by the following identifications:

- H1: Baud rate
- H2: Number of data bits
- H3: Number of stop bits
- H4: Parity
- H5: Protocol logic
- H6: Buffer-nearly-full threshold
- H7: Buffer nearly-empty threshold
- H8: Received data buffer size

The parameters can be changed from the printer operator panel. To change the value for the serial interface parameters, see [Chapter 3 Using the Operator Panel, section 3.5.2 Changing Serial Interface Parameters on page 3-35](#).

This following section outlines the parameters and their values you can select on the operator panel:

#### H1: Baud rate

| Parameter value | Baud rate |
|-----------------|-----------|
| 12              | 1200      |
| 24              | 2400      |
| 48              | 4800      |
| 96              | 9600      |
| 19              | 19200     |
| 38              | 38400     |
| 57              | 57600     |
| 11              | 115200    |

The factory setting is 96 (9600 baud).

#### H2: Number of data bits

7 or 8. The factory setting is 8.

#### H3: Number of stop bits

1 or 2. The factory setting is 1.

**H4: Parity**

| Parameter value | Meaning |
|-----------------|---------|
| 0               | None    |
| 1               | Odd     |
| 2               | Even    |
| 3               | Ignored |

The factory setting is 0 (none).

**H5: Protocol logic**

| Parameter value | Meaning  |
|-----------------|--|
| 0               | Combination of DTR (positive logic) and XON/XOFF |
| 1               | DTR (positive logic)                             |
| 2               | DTR ( negative logic)                            |
| 3               | XON/XOFF   |
| 4               | ETX/ACK  |

The factory setting is 0.

**H6: Buffer nearly-full threshold**

A percentage value from 0 to 99. The factory setting is 90.

**H7: Buffer nearly-empty threshold**

A percentage value from 0 to 99. The factory setting is 70. The factory settings of the buffer nearly-full and nearly-empty thresholds (H6 and H7) are subject to change without notice.

The difference between the nearly-full and nearly-empty thresholds allows the computer to send a fairly large amount of data in a continuous stream.

**H8: Received data buffer size**

The input buffer size is specified in increments of 100 kB. The factory setting is 5 (500 kB).

**B.4.2 PRESCRIBE FRPO D0 Command**

The PRESCRIBE FRPO D0 command is provided to allow manipulating XON/XOFF when an error has occurred on the serial interface. *Table B-5* summarizes the error status corresponding to different D0 values.

| Timing of XON transfer to host while Ready or Waiting | Serial interface error |               |
|---|------------------------|---------------|
|   | error not handled      | error handled |
| XON sent every 3-5 seconds                            | D0=0 (default)         | D0=1          |
| XON not sent  | D0=10                  | D0=11         |

**Table B-5**

## B.5 RS-232C Cable Connection

### B.5.1 Preparing an RS-232C Cable

After you procure an RS-232C cable, check its wiring against the pin assignments shown in page [section B.1.2 Interface Signals on page B-3](#). If you have an IBM communications adapter cable type 1502067, use the procedure below to solder the wiring at the end (printer side) of the cable:

- 1 Unscrew the plastic cover at the end (printer side) of the cable.
- 2 A bare shield wire is provided for each wire in the cable. Solder all shield wires together into a single bundle.
- 3 Connect the bundled shield wires to the connector metal face using a piece of flat cable about 3 mm wide and 15 mm long. Make sure that the soldered connections are secure.
- 4 Unsolder wires 2 and 3, then resolder them in a crossover configuration. In other words, solder wire 2 to pin 3 and wire 3 to pin 2. Cover the solder joints with a thermofit tube.
- 5 Cut wires 4, 5, 6, and 20.
- 6 Solder wires 5 and 6 together and connect them to pin 20. Cover the solder joints with a thermofit tube. Leave wire 4 unconnected.
- 7 Tape all remaining loose ends together, or seal them with a thermofit tube.
- 8 Screw the plastic cover back on the cable end.

### B.5.2 Connecting the Printer to the Computer

Make sure that both computer and printer are powered off.

- 1 Discharge static electricity from your body by touching a metal object such as a doorknob.
- 2 Plug the end (printer side) of the RS-232C cable into the printer's serial interface connector and screw it on securely.
- 3 Plug the other end of the cable into the computer's serial interface connector.
- 4 Power on the printer.
- 5 The printer's parameters are set at the factory as follows:  
Baud rate = 9600 bps, data bits (character length) = 8, stop bits = 1, parity = none  
The two RS-232C protocols are XON/XOFF and DTR. The printer executes both of these protocols simultaneously, using positive logic for DTR.

If you are not sure about the printer's current parameter settings, reset them to the values shown above (i.e., baud rate = 9600 bps, etc.). You can perform parameter settings from the operation panel. See *Chapter 3 Using the Operator Panel, section 3.5.2 Changing Serial Interface Parameters on page 3-35*.

- 6 On the computer, set the same parameters as that of the printer. Most computers allow you to do this by DIP switch settings that should be made before power is turned on.

With Windows XP, make settings as follows:

- 1 Click on the **Start** button in the Windows XP task bar and align the cursor with **Settings**, then click on **Control Panel** from among the items displayed.
- 2 The **Control Panel** window opens. Double click on **System**.
- 3 **System Properties** window opens. Click on the **Hardware** tab, then click on the **Device Manager** button, and double click on **Ports (COM & LPT)**.

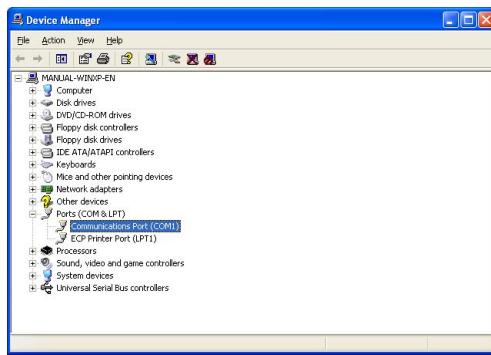


Figure B-1

- 4 Double click on **Communications Port**.
- 5 The **Communications Port Properties** dialog is displayed for the selected COM port. Click on the **Port Settings** tab and set the port properties.

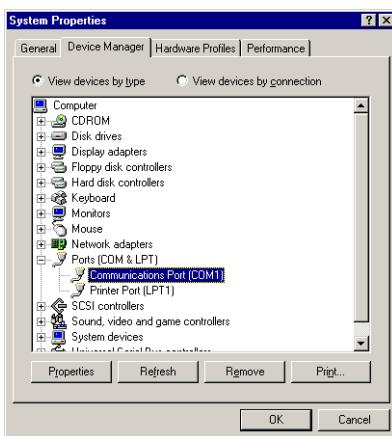


Figure B-2

- 6 After setting the properties, click the **OK** button.

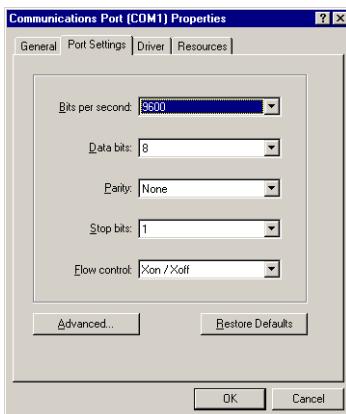
With Windows 95/98/Me, make settings as follows:

- 1 Click on the **Start** button in the Windows 95/98/Me task bar and align the cursor with **Settings**, then click on **Control Panel** from among the items displayed.
- 2 The **Control Panel** window opens. Double click on **System**.
- 3 **System Properties** window opens. Click on the **Device Manager** tab, then double click on **Ports (COM & LPT)**.



**Figure B-3**

- 4 Double click on **Communications Port**.
- 5 The **Communications Port Properties** dialog is displayed for the selected COM port. Click on the **Port Settings** tab and set the port properties.



**Figure B-4**

- 6 After setting the properties, click the **OK** button.

In DOS, enter the following commands:

```
C:\>MODE COM1:96,N,8,1,P  
C:\>MODE LPT1:=COM1
```

To test the interface, enter the following:

```
CTRL P  
C:\>DIR  
CTRL P
```

The software settings made using the above procedures are temporary. On most computers, permanent settings must be made with DIP switches.

# Appendix C Technical Specifications

---

The technical specification may be changed for improvement purpose.

## C.1 Printer Specification

| Item   | Specification  |   |
|--|--|---|
| Printing method                                      | Electrophotographic four color (CMYK) printing using laser diode.                              |   |
| Printing speed                                       | See <a href="#">section C.2 Printing Speeds on page C-4</a> .                                  |   |
| Resolution   | 600 dpi (horizontal and vertical)  |   |
| First print (A4, 23 °C)                              | Approximately 17 seconds (monochrome)<br>Approximately 28 seconds (color)                      |   |
| Warm up time (23 °C)                                 | 180 seconds or less  |   |
| Main Controller CPU                                  | PowerPC 750CX (400 MHz)  |   |
| Main memory  | 128 MB, expandable up to 640 MB maximum  |   |
| Expansion Memory Module                              | 32, 64, 128, or 256 MB (for 2 slots)   |   |
| Operating system                                     | Windows 3.1, Windows 95/98/Me, Windows NT/2000/XP, Macintosh, Linux                            |   |
| Protocol support                                     | IPX/SPX, TCP/IP, EtherTalk, NetBEUI  |   |
| Interfaces   | Parallel   | IEEE1284, 1   |
|  | USB  | USB 2.0 Full-Speed, 1   |
|  | Option   | Network interface card or Serial interface board (KUIO-LV), 1<br>Hard disk, 1 |
| Memory card slot                                     | Compact flash memory card, maximum 256 MB  |   |
| Self-diagnostics                                     | Performed at power-on  |   |
| Maximum duty cycle (for standard dry A4 plain paper) | 100,000 pages per month for monochrome; 25,000 pages per month for color                       |   |
| Imaging drum   | Amorphous silicon drum   |   |
| Developers   | Four (CMYK) dual-component dry developers  |   |
| Main charger   | Positive scorotron charger   |   |
| Transferring   | Primary  | Drum system   |
|  | Secondary  | Belt system   |
| Separation   | Transfer belt  |   |
| Drum cleaning  | Blade cleaner  |   |
| Primary transfer drum cleaning                       | Brush cleaner  |   |
| Drum discharging                                     | LED array  |   |
| Fuser  | Heat rollers   |   |
| Paper  | See <a href="#">Chapter 2 Handling Paper, section 2.1.2 Paper specifications on page 2-2</a> . |   |
| Paper sizes  | Cassettes  | A3, B4, A4, B5, A5, ledger, legal, and letter sizes, adjustable               |
|  | Multi-purpose tray   | 80 × 148mm to 310 × 458 mm  |
| Unprintable areas                                    | A top, bottom, left, or right margin of 4 mm   |   |
| Paper capacity                                       | Cassettes  | 500 sheets (80 g/m <sup>2</sup> )   |
|  | Multi-purpose tray   | 150 sheets (80 g/m <sup>2</sup> )/30 sheets (160 g/m <sup>2</sup> or more)    |

Table C-1

| Item                   | Specification                     |  |
|------------------------|-----------------------------------|--|
| Output tray capacities | Face-down tray                    | 500 sheets (80 g/m <sup>2</sup> )                                    |
|                        | Face-up tray                      | 150 sheets (80 g/m <sup>2</sup> )                                    |
| Operating environment  | Temperature                       | 10 to 32.5 °C (50 to 90.5 °F)  |
|                        | Relative humidity                 | 15 to 80 %   |
|                        | Optimum conditions                | 23 °C (73 °F), 60 % (relative humidity)                              |
|                        | Altitude                          | 2,000 m (6,500 feet) maximum   |
|                        | Illumination                      | 1,500 lux or less  |
| Power supply           | U.S.A. and Canada                 | 120 V, 60 Hz, 11.5 A max   |
|                        | Europe, Asia, and other countries | 220 to 240 V, 50 or 60 Hz, 5.8 A max. at 230 V                       |
|                        | Allowable voltage fluctuations    | ± 10 % maximum   |
|                        | Allowable frequency fluctuations  | ± 2 % maximum  |
| Power consumption      | U.S.A. and Canada                 | Maximum 1,296 W  |
|                        | Normal operation                  | 833 W  |
|                        | Standby                           | 193 W  |
|                        | Sleeping                          | 22 W   |
|                        | Europe, Asia, and other countries | Maximum 1,318 W  |
|                        | Normal operation                  | 803 W  |
|                        | Standby                           | 196 W  |
|                        | Sleeping                          | 26 W   |
| Noise <sup>†</sup>     | Printing                          | LpA = 53 dB (A)  |
|                        | Standby                           | LpA = 39 dB (A)  |
|                        | Sleeping                          | Unmesurably low  |
| Dimensions             | Printer                           | 590 (23-1/4) wide × 422 (16-5/8) high × 585 mm (23-5/16 inches) deep |
|                        | Paper feeder                      | 560 (22-1/16) wide × 251 (9-7/8) high × 566 mm (22-5/16 inches) deep |
| Weight                 | Printer                           | 76.3 kg (168-3/16 lb)  |
|                        | Paper feeder                      | 19.1 kg (42-1/8 lb)  |
|                        | Duplexer                          | 22.1 kg (48-3/4 lb)  |

Table C-1 (Continued)

<sup>†</sup> In accordance with ISO 7779 (Bystander Position, sound pressure level at the front)

## C.2 Printing Speeds

| Mode                          | Paper Size                               | Print Speeds   |                 |
|-------------------------------|--|----------------|-----------------|
|                               |  | Color          | Monochrome      |
| Simplex printing              | A4, Letter                               | 8 pages/minute | 31 pages/minute |
|                               | A5                                       | 8 pages/minute | 15 pages/minute |
| Duplex printing <sup>††</sup> | A3, Ledger, Legal, B4, B5                | 4 pages/minute | 15 pages/minute |
|                               | A4 thick, Transparency (A4) <sup>†</sup> | 4 pages/minute | 8 pages/minute  |
| Duplex printing <sup>††</sup> | A4, Letter                               | 8 pages/minute | 21 pages/minute |
|                               | A5                                       | 8 pages/minute | 15 pages/minute |
|                               | A3, Ledger, Legal, B4, B5                | 4 pages/minute | 7 pages/minute  |

**Table C-2**

† Only with MP tray feeding

†† The PD-800 duplex unit is required.

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